

**Rico Surface Water Sampling
Supplemental Surface Water Quality Monitoring
Rico, Colorado
Data Summary Report**

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September 2011

Rico, Colorado
Surface Water Sampling Report
September 2011 Sampling Event

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1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface Water Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface water sampling event was completed on September 13th – 15th, 2011. Sampling was completed by Anderson Engineering Co. Inc., by technicians who are familiar with the Rico sites and the BP Control of Work Management System. Surface water samples were collected from prescribed locations within the St. Louis settling pond system and at the system discharge (002) to the Dolores River (collectively referred to as the St. Louis pond system), and previously sampled locations along the Dolores River above, at and below the St. Louis pond system. Figure 1 and Figure 2 (see Appendix A) illustrate the location of the various sampling stations. Sample results are summarized and laboratory analytical results are attached with quality control documentation.

2.0 Field Sampling

2.1 Sampling Frequency

The sampling period represented by this sampling event is for the month of September of 2011. Sampling will be performed on a monthly basis until at least April of 2012

2.2 Water Quality and Flow Measurement Sampling Locations

Samples were collected from the locations described on Table 1 and shown on Figure 1 and Figure 2 in Appendix A.

The Dolores River was sampled above the St. Louis pond system, and below the adit outfalls downstream of the reclaimed Silver Swan Mine area. The river was also sampled at the USGS gaging station downstream of the Silver Swan site.

TABLE 1 - Sample Location Summary

SITE ID	SITE DESCRIPTION
DR-4-SW	Dolores River below Silver Swan
DR-1	Dolores River above St. Louis settling pond system
DR-2	Dolores River immediately above the St. Louis settling pond system outfall
DR-3	St. Louis tunnel discharge at adit
DR-4	Discharge of Pond 15
DR-5	Discharge of Pond 8
DR-6	St. Louis settling pond system outfall to the Dolores River
DR-7	Dolores River below St. Louis settling pond system outfall
DR-G	Dolores River at USGS gaging station #09165000

2.3 Sampling Station Descriptions

The sampling requirements and stations are described in detail below:

DR-4-SW. Dolores River below Silver Swan. Sampling/flow measurement location is on the Dolores River below the Silver Swan site just downstream of a bend in the river and below a cemetery on the east bank. Flow measurements were collected by flowmeter.

DR-1. Dolores River above St. Louis settling ponds system. The sampling/flow measurement location is on the Dolores River approximately 50 feet upstream of the Rico Ranger Station. Flow measurements were collected by flowmeter.

DR-2. Dolores River immediately above the St. Louis settling pond system outfall. Sampling/flow measurement location is on the Dolores just above the 002 discharge outfall, and upstream of the hot tub discharge. The site is located directly adjacent to the thermal discharge which supplies the hot tub. Flow measurement was collected by flowmeter.

DR-3. St. Louis tunnel discharge at adit entrance. Sampling location is at the inlet of the flume, just before the throat. Flow measurement by an installed 9" flume at the sampling location.

DR-4. Discharge of Pond 15. Flow measurement was collected by flowmeter.

DR-5. Discharge of Pond 8. Flow measurement was collected by flowmeter.

DR-6. St. Louis settling ponds system outfall to the Dolores River (Outfall 002). Flow measurement by installed 9" flume.

DR-7. Dolores River below St. Louis settling ponds system outfall. Sampling/flow measurement location is located just off the entrance road to the St. Louis ponds site where the Dolores River is adjacent to the entrance road. The site is located approximately 75 feet downstream from a large bend in the river that first brings the Dolores adjacent to the entrance road. Flow measurements was collected by flowmeter.

DR-G. Located at the USGS gauging station #09165000. Flow measurements were collected by flowmeter.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab samples. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream. Lab-certified plastic bottles were used to collect sample water for analyses. Clean hands, dirty hands procedures were followed throughout the sampling. For quality control purposes, one duplicate sample and one field blank were included with the water samples being submitted to the laboratory for analysis.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs, and within 10 minutes, placed in the sampling bottles. A 500 mL HDPE bottle was used to collect a sample for alkalinity, TDS, TSS, and sulfate analyses. A 250 mL HDPE bottle was used to collect a sample for salinity analysis. Sample water for dissolved metals analysis and potentially dissolved metals analysis was filtered through a 0.45 μ m filter into a 250 mL sample bottle containing nitric acid preservative. Sample water for total recoverable metals analysis and water hardness was collected without filtration in a 250 mL HDPE sample bottle containing nitric acid preservative. Sample water for cyanide analysis was collected without filtration into a 250 mL HDPE sample bottle containing sodium hydroxide preservative.

Field parameters were measured at the time of sample collection. Field measurement data for pH, temperature, conductivity, and dissolved oxygen were recorded using an EXTECH Instruments DO610 ExStik II DO/pH/Conductivity kit, and results were logged in the field log book. The field instrument was calibrated prior to use with equipment calibration and maintenance standard solutions and consistent with manufacturer's instructions. Weather parameters including temperature and precipitation were obtained and documented.

All sample bottles were labeled to identify sample number, date and time of collection, type of analysis, and appropriate preservative. In addition, sample analysis/chain of custody forms were completed and processed at the time of sample collection. Original chain of custody forms are signed, dated, and placed in the sample container prior to sealing the container for shipment.

Water samples were kept in cooled containers and sent to the analytical laboratory. Samples were submitted to Pace Analytical Laboratories in Lenexa, Kansas for analysis by analytical procedures listed on Table 2. Analysis was performed according to methods specified in 40 CFR, Part 136 or other methods approved by the EPA. Laboratory methods and reporting limits for all parameters are presented in Table 2. Laboratory results and supporting documentation including quality assurance results are contained in the Appendix C and Appendix D of this report.

TABLE 2 - Analytical Procedures Summary

Parameter	Detection Limit (MDL)	Method
Field Parameters		
pH (s.u.)	+/- 0.01 pH	EPA 150.2
Temperature (°C)	+/- 1°C	Standard Method 2550
Conductivity ($\mu\text{mhos}/\text{cm}$)	+/- 2% Full Scale	EPA 120.1
Dissolved Oxygen	+/- 2% Full Scale	SM 4500-OG
Non-Metals		
Alkalinity (mg/L as CaCO_3)	RL – 20 mg/L	EPA 310.1
Hardness (mg/L as CaCO_3)	RL – 0.5 mg/L	SM 2340 B
Total Dissolved Solids (mg/L as TDS)	RL – 5.0 mg/L	SM 2540C
Total Suspended Solids (mg/L as TSS)	RL – 5.0 mg/L	SM 2540D
Cyanide ($\mu\text{g}/\text{L}$ as CN)	RL – 0.005 mg/L	EPA 335.4
Salinity	RL – 6 mg/L	SM 2510B (calculated)
Sulfate (mg/L as SO_4)	RL – 1 mg/L	EPA 300.0
Total and Dissolved Metals		
Aluminum ($\mu\text{g}/\text{L}$ as Al)	2 $\mu\text{g}/\text{L}$	EPA 200.8
Antimony ($\mu\text{g}/\text{L}$ as Sb)	0.07 $\mu\text{g}/\text{L}$	EPA 200.8
Arsenic ($\mu\text{g}/\text{L}$ as As)	0.09 $\mu\text{g}/\text{L}$	EPA 200.8
Barium ($\mu\text{g}/\text{L}$ as Ba)	0.08 $\mu\text{g}/\text{L}$	EPA 200.8
Beryllium ($\mu\text{g}/\text{L}$ as Be)	0.02 $\mu\text{g}/\text{L}$	EPA 200.8
Cadmium ($\mu\text{g}/\text{L}$ as Cd)	0.03 $\mu\text{g}/\text{L}$	EPA 200.8
Calcium ($\mu\text{g}/\text{L}$ as Ca)	10 $\mu\text{g}/\text{L}$	EPA 200.8
Chromium (ug/l as Cr)	0.25 ug/L	EPA 200.8
Copper ($\mu\text{g}/\text{L}$ as Cu)	0.07 $\mu\text{g}/\text{L}$	EPA 200.8
Iron ($\mu\text{g}/\text{L}$ as Fe)	4.67 $\mu\text{g}/\text{L}$	EPA 200.8
Lead ($\mu\text{g}/\text{L}$ as Pb)	0.05 $\mu\text{g}/\text{L}$	EPA 200.8
Magnesium ($\mu\text{g}/\text{L}$ as Mg)	2.5 $\mu\text{g}/\text{L}$	EPA 200.8
Manganese ($\mu\text{g}/\text{L}$ as Mn)	0.17 $\mu\text{g}/\text{L}$	EPA 200.8
Mercury ($\mu\text{g}/\text{L}$ as Hg)	0.049 $\mu\text{g}/\text{L}$	EPA 245.1
Nickel ($\mu\text{g}/\text{L}$ as Ni)	0.07 $\mu\text{g}/\text{L}$	EPA 200.8
Potassium ($\mu\text{g}/\text{L}$ as K)	10 $\mu\text{g}/\text{L}$	EPA 200.8
Selenium (ug/l as Se)	0.22 ug/L	EPA 200.8
Silver (ug/L as Ag)	0.25 ug/L	EPA 200.8
Sodium ($\mu\text{g}/\text{L}$ as Na)	25 $\mu\text{g}/\text{L}$	EPA 200.8
Thallium ($\mu\text{g}/\text{L}$ as Tl)	0.05 ug/L	EPA 200.8
Vanadium ($\mu\text{g}/\text{L}$ as V)	0.05 ug/L	EPA 200.8
Zinc ($\mu\text{g}/\text{L}$ as Zn)	2.5 $\mu\text{g}/\text{L}$	EPA 200.8

4.0 Flow Measurement Methods

Flows were measured at the river sampling locations where accessible. The flow measurements obtained this sampling period are described in Section 2.3. Flow velocity was measured for sampling locations DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-4-SW, and DR-G. Cross-sectional areas could be safely obtained at all river sample locations (DR-1, DR-2, DR-7, DR-4-SW, AND DR-G) and at the discharge spillway of pond 8 (DR-5). Refer to Figures 3 through 8 in Appendix E for these cross sections. The flowrates are presented on Table 3 in Appendix B.

Flowrates collected during this sampling event were taken by use of a Global Water Flow Probe FP211 portable flow meter using the six-tenths-depth method. This method uses the velocity at six-tenths of the depth as the mean velocity. This method is generally reliable between depths from 0.3 feet to 2.5 feet. Stream sections were selected with the desired characteristics of parallel flows, smooth streambed with minimal obstructions, a straight channel, and a flat streambed. The stream section, perpendicular to the flow was measured in feet. The width of the section was determined and divided into several vertical sections. Flow measurements of velocity (by the six-tenths-depth method) and water depth were measured at each vertical section using the Global Water Flow Probe FP211. The flow meter was set to the 3 second fixed period average mode. A minimum of three velocity readings were recorded at each vertical section. Flows were calculated for each stream section using the water depth, horizontal distance, and averaged velocity data.

The St. Louis tunnel flow (DR-3) and St. Louis pond discharge (DR-6) currently have Parshall flumes installed. Flow measurements can be determined at these flumes when the depth of flow is known at a particular point. In order to continuously monitor and measure the depth of flow, depth measurement devices were installed on May 11th, 2011 and May 12th, 2011 at both the north and south flumes. An STI Ultrasonic IRU-5180 automated water level detector was installed at the north Parshall flume. It is suspended over the flow stream and measures the distance from the sensor to the water surface using ultrasonic sound waves. It then uses that value to determine the depth of flow, and reports it. The south flume has a submersible pressure transducer called the OTT Orpheus Mini. It records deviations from a pre-programmed depth of air space from the top edge of the flume down to the water level. Knowing then the total depth of the flume, the depth of flow can be determined. The post processed data for these two devices for the month of September, 2011 is given in Appendix I and Appendix J.

It has been observed that the flow at the north Parshall flume (DR-3) have recorded readings with some variability. Actions have been taken to reduce turbulent flow entering the flume by laying the liner as flat as possible. Additionally, the manufacturer has provided guidance for data error correction that has been implemented. In order to obtain accurate data a transducer water flow measurement device has been ordered and is to be installed to confirm the ultrasonic readings.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Table 4 in Appendix B. The data is organized by sample location. The laboratory results report is contained in Appendix C.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included a field duplicate and a Field Blank (FB).

6.1 Field QC

A field duplicate water sample was collected from sample location DR-3. During sample collection, the duplicate sample bottles were filled simultaneously from the discharge stream of water. The duplicate sample was submitted to the analytical laboratory with the label of DR-8, so as to serve as a “blind duplicate.”

Table 5 compares the analytical results from DR-3 and DR-8 and presents the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%. All comparative values were within +/-20% with the exception of TSS.

TABLE 5 – Relative Percent Difference (RPD) of Total Metal Portion Between DR-3 and Duplicate Sample DR-8

Analyte (Total)	DR-3 ($\mu\text{g/L}$)	DR-8 ($\mu\text{g/L}$) Duplicate of DR-3	RPD (%)
Aluminum	252	250	-0.80
Antimony	<0.50	<0.50	0.00
Arsenic	<0.50	<0.50	0.00
Barium	18.4	18.4	0.00
Beryllium	0.62	0.60	-3.28
Cadmium	18.5	18.4	-0.54
Calcium	210000	214000	1.89
Chromium	<0.50	0.57	0.00
Copper	0.038	0.038	0.00
Iron	4650	4580	-1.52
Lead	1.4	1.4	0.00
Magnesium	18500	18400	-0.54
Manganese	2180	2220	1.82
Mercury	<0.20	<0.20	0.00
Nickel	6.4	6.3	-1.57
Potassium	1560	1550	-0.64
Selenium	<0.50	<0.50	0.00
Silver	<0.50	<0.50	0.00
Sodium	8480	8370	-1.31
Thallium	<0.10	<0.10	0.00
Vanadium	<0.10	<0.10	0.00
Zinc	3730	3800	1.86
Alkalinity (mg/L)	102	100	-1.98

Hardness	600000	611000	1.82
TDS (mg/L)	869	884	1.71
TSS (mg/L)	11.0	8.0	-31.58
Cyanide	<0.0050	<0.0050	0.00
Salinity (mg/L)	654	621	-5.18
Sulfate (mg/L)	543	550	1.28

A Field Blank (FB) was collected by pouring distilled water through the filtering manifold after the first day of sampling and decontaminating the equipment. The FB was analyzed for the same constituents as the other samples. The FB had below detectable concentrations for all metals except total calcium and dissolved barium. The pH was near neutral, the Electrical Conductivity (EC) was non-detectable, and it showed a low level of alkalinity.

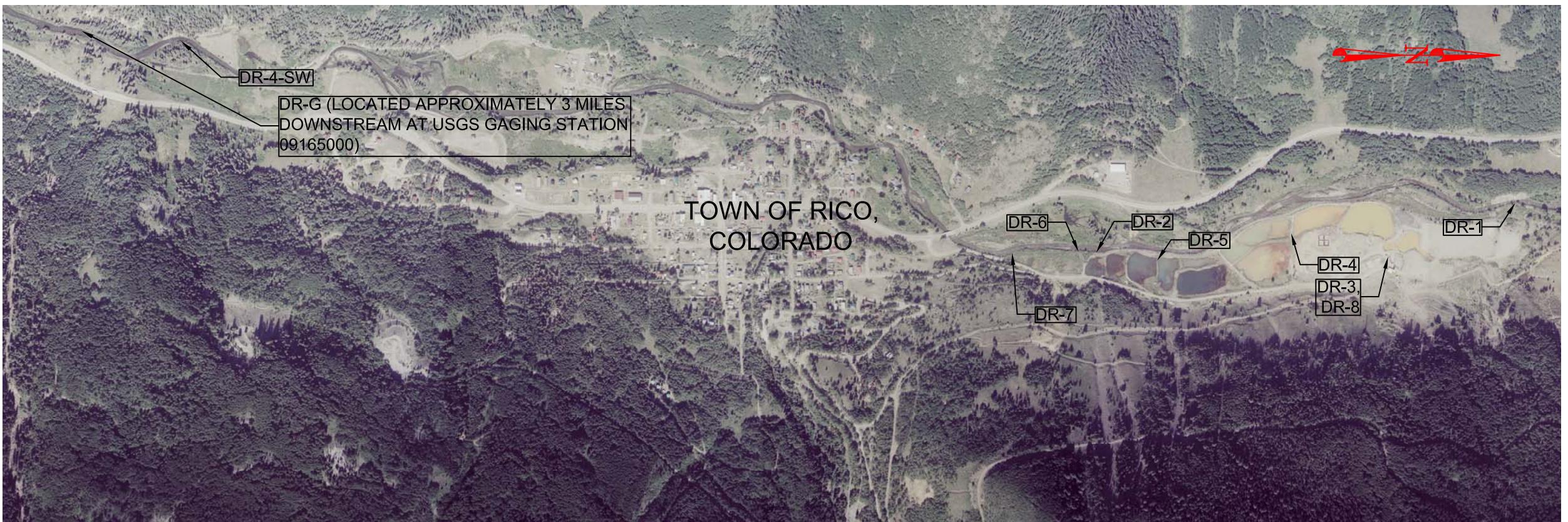
6.2 Laboratory QC

The laboratory control sample (LCS), method blank, matrix spike, and matrix spike duplicate sample results were all within the established limits of concentration, percent recovery, and relative percent difference, with several minor exceptions under the following:

- The matrix spike and matrix spike duplicate recovery not evaluated against control limits due to sample dilution for aluminum and calcium.
- The matrix spike recovery exceeded QC limits for the Matrix Spike / Matrix Spike Duplicate for aluminum (dissolved), barium (dissolved), calcium (dissolved), iron (dissolved), lead (dissolved), magnesium (dissolved), potassium (dissolved), silver (dissolved), mercury, and mercury (dissolved), and Matrix Spike Sample for calcium, mercury, and mercury (dissolved). Batch accepted based on laboratory control sample (LCS) recovery.
- The relative percent difference (RPD) between the sample and the sample duplicate exceeded laboratory control limits (control limit RPD = 20) for cadmium (dissolved), chromium (dissolved), copper (dissolved), iron (dissolved), lead (dissolved), nickel (dissolved), selenium (dissolved), silver (dissolved), thallium (dissolved), vanadium (dissolved), and mercury (dissolved).
- RPD value was outside control limits for the Sample Duplicate for total dissolved solids and total suspended solids.

QC results are summarized in Tables 6 through 9 In Appendix B with the full laboratory QC results presented in Appendix D.

Appendix A
Sampling Location Maps



General Notes

Scale in Feet
0 500 1000

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



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ENGINEER: CS, MAD

APPROVED:

RICO SURFACE
WATER SAMPLING

SURFACE WATER
SAMPLING LOCATIONS

RICO, CO

Project	Figure
Date 09-FEB-2011	
Scale 1" = 1000'	1



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General Notes

Scale in Feet
0 175 350

No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD

ENGINEER: CS, MAD

APPROVED:

RICO SURFACE
WATER SAMPLING

ST. LOUIS POND AREA
SAMPLING LOCATIONS

RICO, CO

Project	Figure
Date 09-FEB-2011	
Scale 1" = 350'	2

Appendix B

Data Tables

TABLE 3 - Sampling Field Data and Station Information Summary

	Field Measurements				GPS Location						
Sample Location	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Latitude	Longitude	Date	By	Stream Cross section area (ft^2)	Flowrate (cfs)	Comments
DR-1	8.49	11.6	0.1545	1.26	37°42'37.6" N	108°01'56.0" W	9/15/2011	M. DeFriez, C. Sudol	25.2	59.3	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow Measurement by flow meter.
DR-2	8.10	14.8	0.261	0.93	37°42'03.96" N	108°01'49.89" W	9/15/2011	M. DeFriez, C. Sudol	34.8	41.3	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurement by flow meter.
DR-3	6.94	17.2	1.130	0.95	37°42'27.5" N	108°01'50.3" W	9/15/2011	M. DeFriez, C. Sudol	NA	2.00	St Louis adit discharge. Flow measurement by installed Parshall Flume.
DR-4	7.38	18.3	1.050	0.94	37°42'19.7" N	108°01'52.7" W	9/15/2011	M. DeFriez, C. Sudol	NA	1.81	Pond 15 discharge. Flow measurement by flow meter.
DR-5	7.55	16	1.053	1.02	37°42'08.8" N	108°01'49.7" W	9/15/2011	M. DeFriez, C. Sudol	NA	1.58	Pond 8 was discharging at multiple small locations as well as the spillway. Flow velocity measurements were collected at the spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flow measurements were take at spillway by flow meter.
DR-6	7.40	16.4	1.041	0.91	37°42'02.4" N	108°01'50.2" W	9/15/2011	M. DeFriez, C. Sudol	NA	1.42	Outfall to Dolores River. Flow measurement by installed Parshall Flume.
DR-7	7.62	14.8	0.391	1.17	37°41'57.12" N	108°01'49.63" W	9/15/2011	M. DeFriez, C. Sudol	45.4	60.0	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurement by flow meter.
DR-8	6.94	17.2	1.130	0.95	37°42'27.5" N	108°01'50.3" W	9/15/2011	M. DeFriez, C. Sudol	NA	2.00	DR-8 is a duplicate sample of DR-3. See comments for DR-3.
DR-4-SW	7.76	15.2	0.327	1.12	37°40'49.4" N	108°02'09.0" W	9/15/2011	M. DeFriez, C. Sudol	27.4	41.8	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurement by flow meter.
DR-G	8.01	15	0.327	1.05	37°38'19.8" N	108°03'36.5" W	9/15/2011	M. DeFriez, C. Sudol	17.1	30.2	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site
FB	7.94	15.5	0.0	1.17	N/A	N/A	9/15/2011	M. DeFriez, C. Sudol	NA	NA	Field blank

TABLE 4 - Analytical Sampling Results Summary September 2011

Metals (µg/L)																								Non-Metals (mg/L, unless otherwise indicated)						Field Parameters						
DR-1: Delores River above St. Louis settling pond system		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-1	9/15/11	Total	57.0	<0.50	<0.50	<0.50	63.9	<0.20	<0.080	39300	<0.50	0.00083	87.1	0.14	5850	21.8	<0.20	<0.50	667	<0.50	<0.50	2210	<0.10	0.22	<5.0	90.0	122000	137	8.0	<0.0050	142	42.9	8.49	11.6	0.1545	1.26
DR-1 D	9/15/11	Dissolved	6.3	<0.50	<0.50	<0.50	64.7	<0.20	<0.080	51400	<0.50	0.69	<5.0	<0.10	5840	17.0	<0.20	<0.50	670	<0.50	<0.50	2290	<0.10	0.14	<5.0											
DR-2: Delores River immediately above the St. Louis settling pond system outfall		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-2	9/15/11	Total	162	<0.50	<0.50	<0.50	61.6	<0.20	<0.080	42900	<0.50	0.00066	184	0.26	6090	75.5	<0.20	<0.50	764	<0.50	<0.50	2490	<0.10	0.49	5.6	88.0	132000	151	9.0	<0.0050	159	53.1	8.1	14.8	0.261	0.93
DR-2 D	9/15/11	Dissolved	8.4	<0.50	<0.50	<0.50	62.0	<0.20	<0.080	47400	<0.50	0.55	81.0	<0.10	6050	70.9	<0.20	<0.50	726	<0.50	<0.50	2570	<0.10	0.12	<5.0											
DR-3: St. Louis tunnel discharge at adit		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-3	9/15/11	Total	252	<0.50	<0.50	<0.50	18.4	0.62	18.5	210000	<0.50	0.038	4650	1.4	18500	2180	<0.20	6.4	1560	<0.50	<0.50	8480	<0.10	<0.10	3730	102	600000	869	11.0	<0.0050	654	543	6.94	17.2	1.13	0.95
DR-3 D	9/15/11	Dissolved	35.4	<0.50	<0.50	<0.50	18.4	0.39	18.2	216000	<0.50	3.9	2050	0.11	18500	2250	<0.20	6.5	1560	<0.50	<0.50	8430	<0.10	<0.10	3740											
DR-4: Discharge of Pond 15		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-4	9/15/11	Total	175	<0.50	<0.50	<0.50	18.0	0.43	17.6	212000	<0.50	0.027	3160	0.96	18300	2160	<0.20	6.0	1540	<0.50	<0.50	8310	<0.10	<0.10	3610	100	605000	844	12.0	<0.0050	649	555	7.38	18.3	1.05	0.94
DR-4 D	9/15/11	Dissolved	13.6	<0.50	<0.50	<0.50	18.3	<0.20	15.3	210000	<0.50	1.1	<5.0	<0.10	18000	2130	<0.20	6.4	1530	<0.50	<0.50	8250	<0.10	<0.10	3180											
DR-5: Discharge of Pond 8		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-5	9/15/11	Total	88.7	<0.50	<0.50	<0.50	17.3	0.28	15.1	210000	<0.50	0.014	1510	0.44	18400	1950	<0.20	5.6	1650	<0.50	<0.50	8340	<0.10	<0.10	3070	106	600000	865	7.0	<0.0050	631	540	7.55	16	1.053	1.02
DR-5 D	9/15/11	Dissolved	7.8	<0.50	<0.50	<0.50	18.8	<0.20	13.7	226000	<0.50	1.1	69.6	<0.10	18600	2120	<0.20	5.8	1660	<0.50	<0.50	8540	<0.10	<0.10	2970											
DR-6: St. Louis settling pond system outfall to the Delores River (Outfall 002)		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-6	9/15/11	Total	39.0	<0.50	<0.50	<0.50	17.9	<0.20	12.8	224000	<0.50	0.0065	606	0.49	20800	1760	<0.20	5.4	2260	<0.50	<0.50	10200	<0.10	<0.10	2760	122	645000	916	<5.0	<0.0050	664	546	7.4	16.4	1.041	0.91
DR-6 D	9/15/11	Dissolved	6.1	<0.50	<0.50	<0.50	19.1	<0.20	12.4	267000	<0.50	1.3	<5.0	<0.10	20800	2110	<0.20	5.1	2260	<0.50	<0.50	10500	<0.10	<0.10	3240											
DR-7: Delores River below St. Louis settling pond system outfall		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness (µg/L as CaCO ₃)	TDS	TSS	Cyanide	Salinity	Sulfate	pH	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (ppm)
DR-7	9/15/11	Total	110	<0.50	0.64	56.6	<0.20	1.1	64800	<0.50	0.00097	256	0.21	8960	239	<0.20	0.68	1430	<0.50	<0.50	4510	<0.10	0.32	224	108	199000	264	<5.0	<0.0050	252	108	7.62	14.8	0.391	1.17	
DR-7 D	9/15/11	Dissolved	7.9	<0.50	0.70	59.0	<0.20	1.0	74300	<0.50	0.61	63.0	0.10	9140	258	<0.20	1.5	1460	<0.50	<0.50	4710	<0.10	0.11	226												
DR-8: St. Louis tunnel discharge at adit (Duplicate of DR-3)		Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium																												

Rico Colorado Surface Water Sampling QC Results - September 2011 Sampling

TABLE 9 - Matrix Spike Sample

Description	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Hardness	TDS	TSS	Cyanide	Sulfate	
QC Sample	MSS-1058666	-	MSS-1058666	-	-	MSS-882376	MSS-882443																						
Units	µg/L	µg/L	-	-	-	-	mg/L	mg/L																					
Original Result	ND	23.6	ND	ND	-	-	-	-	ND	80.0																			
Spike Conc.	80	80	80	80	80	80	1000	80	0.08	1000	80	1000	80	5	80	1000	80	80	80	80	80	-	-	-	-	0.1	25		
MSS Result	87.0	77.7	80.6	77.7	78.5	77.8	1060	78.4	0.079	1010	76.7	998	78.2	4.0	82.2	1040	82.2	71.5	967	77.2	78.8	79.6	-	-	-	-	0.12	107	
MSS % Rec	105	97	101	97	98	97	104	97	99	100	96	100	97	81	103	103	103	89	96	96	98	99	-	-	-	-	115	109	
% Rec Limits	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	-	-	-	-	41-136	61-119		
Qualifiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dissolved																													
QC Sample	MSS-1060341	-	-	-	-	-	-																						
Units	µg/L	µg/L	-	-	-	-	-	-																					
Original Result	4.8	ND	ND	39.1	ND	0.092	35400.0	0.55	2.6	ND	0.4	3840.0	0.96	ND	0.69	652.0	ND	ND	1640.0	ND	ND	-	-	-	-	-	-		
Spike Conc.	80	80	80	80	80	80	1000	80	80	1000	80	1000	80	5	80	1000	80	80	1000	80	80	-	-	-	-	-	-		
MSS Result	81.6	73.8	73.6	119	79	80.5	35000	82.1	85.2	1030.0	82.0	4930.0	82.6	6.5	81.6	1640.0	84.0	73.0	2680.0	82.2	81.2	86.0	-	-	-	-	-	-	
MSS % Rec	96	92	92	100	99	101	-39	102	103	98	102	109	102	130	101	98	105	91	104	103	101	102	-	-	-	-	-	-	
% Rec Limits	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	-	-	-	-	-	-			
Qualifiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sample Duplicate																													
QC Sample	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SD-882377	-		
Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mg/L	-		
Original Result	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-		
Dup Result	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	
RPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-
Max RPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Qualifiers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate.

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PAS-I Pace Analytical Services - Kansas City

PAS-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated more than 15 minutes after sample collection.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.



Appendix C

Project Narrative and Laboratory Analytical Reports

October 03, 2011

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Dear Mark DeFriez:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colleen Koporc

colleen.koporc@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RICO WATER SAMPLING SEPT. 2011
 Pace Project No.: 60106356

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 EPA Region 8 Certification #: Pace
 Florida/NELAP Certification #: E87605
 Georgia Certification #: 959
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Louisiana Certification #: 03086
 Louisiana Certification #: LA080009
 Maine Certification #: 2007029
 Maryland Certification #: 322
 Michigan DEQ Certification #: 9909
 Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace
 Montana Certification #: MT CERT0092
 Nevada Certification #: MN_00064
 Nebraska Certification #: Pace
 New Jersey Certification #: MN-002
 New Mexico Certification #: Pace
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Dakota Certification #: R-036
 North Dakota Certification #: R-036A
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: D9921
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Tennessee Certification #: 02818
 Texas Certification #: T104704192
 Washington Certification #: C754
 Wisconsin Certification #: 999407970

Montana Certification IDs

602 South 25th Street, Billings, MT 59101
 EPA Region 8 Certification #: 8TMS-Q
 Idaho Certification #: MT00012

Montana Certification #: MT CERT0040
 NVLAP Certification #: 101292-0
 Minnesota Dept of Health Certification #: 030-999-442

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
 A2LA Certification #: 2456.01
 Arkansas Certification #: 05-008-0
 Illinois Certification #: 001191
 Iowa Certification #: 118
 Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
 Nevada Certification #: KS000212008A
 Oklahoma Certification #: 9205/9935
 Texas Certification #: T104704407-08-TX
 Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60106356001	DR-1	Water	09/15/11 00:00	09/17/11 08:00
60106356002	DR-2	Water	09/15/11 00:00	09/17/11 08:00
60106356003	DR-3	Water	09/15/11 00:00	09/17/11 08:00
60106356004	DR-4	Water	09/15/11 00:00	09/17/11 08:00
60106356005	DR-5	Water	09/15/11 00:00	09/17/11 08:00
60106356006	DR-6	Water	09/15/11 00:00	09/17/11 08:00
60106356007	DR-7	Water	09/15/11 00:00	09/17/11 08:00
60106356008	DR-8	Water	09/15/11 00:00	09/17/11 08:00
60106356009	DR-4-SW	Water	09/15/11 00:00	09/17/11 08:00
60106356010	DR-G	Water	09/15/11 00:00	09/17/11 08:00
60106356011	FB	Water	09/15/11 00:00	09/17/11 08:00
60106356012	GW-1	Water	09/14/11 00:00	09/17/11 08:00
60106356013	GW-3	Water	09/14/11 00:00	09/17/11 08:00
60106356014	GW-4	Water	09/14/11 00:00	09/17/11 08:00
60106356015	GW-5	Water	09/14/11 00:00	09/17/11 08:00
60106356016	GW-6	Water	09/15/11 00:00	09/17/11 08:00
60106356017	GW-7	Water	09/15/11 00:00	09/17/11 08:00
60106356018	EB-1	Water	09/15/11 00:00	09/17/11 08:00
60106356019	EB-2	Water	09/15/11 00:00	09/17/11 08:00

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106356001	DR-1	EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
60106356002	DR-2	SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
60106356003	DR-3	EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
60106356004	DR-4	SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106356005	DR-5	SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
60106356006	DR-6	SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
60106356007	DR-7	SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106356008	DR-8	SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
60106356009	DR-4-SW	EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
60106356010	DR-G	EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
60106356011	FB	Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106356012	GW-1	EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
60106356013	GW-3	SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
60106356014	GW-4	SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytics Reported	Laboratory
60106356015	GW-5	Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
60106356016	GW-6	SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
60106356017	GW-7	EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106356018	EB-1	EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
60106356019	EB-2	SM 2540D	KLB	1	PASI-K
		EPA 300.0	JPF	1	PASI-K
		SM 4500-CN-E	SRM1	1	PASI-K
		EPA 200.8	RJS	22	PASI-M
		EPA 200.8	RJS	21	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		SM 2510B	SR1	1	
		Calculated	SR1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 2540D	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-1	Lab ID: 60106356001	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	57.0 ug/L		4.0	1	09/22/11 14:56	09/27/11 15:50	7429-90-5	M6
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7440-38-2	
Barium	63.9 ug/L		0.30	1	09/22/11 14:56	09/27/11 15:50	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/27/11 15:50	7440-41-7	
Cadmium	ND ug/L		0.080	1	09/22/11 14:56	09/27/11 15:50	7440-43-9	
Calcium	39300 ug/L		400	20	09/22/11 14:56	09/26/11 17:30	7440-70-2	M6
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7440-47-3	
Copper	0.00083 mg/L		0.00050	1	09/22/11 14:56	09/27/11 15:50	7440-50-8	
Iron	87.1 ug/L		50.0	1	09/22/11 14:56	09/27/11 15:50	7439-89-6	
Lead	0.14 ug/L		0.10	1	09/22/11 14:56	09/27/11 15:50	7439-92-1	
Magnesium	5850 ug/L		5.0	1	09/22/11 14:56	09/27/11 15:50	7439-95-4	
Manganese	21.8 ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7439-96-5	
Nickel	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7440-02-0	
Potassium	667 ug/L		20.0	1	09/22/11 14:56	09/27/11 15:50	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:50	7440-22-4	
Sodium	2210 ug/L		50.0	1	09/22/11 14:56	09/27/11 15:50	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/27/11 15:50	7440-28-0	
Total Hardness by 2340B	122000 ug/L		1420	20	09/22/11 14:56	09/26/11 17:30		
Vanadium	0.22 ug/L		0.10	1	09/22/11 14:56	09/27/11 15:50	7440-62-2	
Zinc	ND ug/L		5.0	1	09/22/11 14:56	09/27/11 15:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	6.3 ug/L		4.0	1	09/22/11 14:58	09/23/11 23:57	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-38-2	
Barium, Dissolved	64.7 ug/L		0.30	1	09/22/11 14:58	09/23/11 23:57	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/23/11 23:57	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	09/22/11 14:58	09/23/11 23:57	7440-43-9	
Calcium, Dissolved	51400 ug/L		100	5	09/22/11 14:58	09/26/11 14:58	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-47-3	
Copper, Dissolved	0.69 ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/23/11 23:57	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/23/11 23:57	7439-92-1	
Magnesium, Dissolved	5840 ug/L		5.0	1	09/22/11 14:58	09/23/11 23:57	7439-95-4	
Manganese, Dissolved	17.0 ug/L		2.5	5	09/22/11 14:58	09/26/11 14:58	7439-96-5	
Nickel, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-02-0	
Potassium, Dissolved	670 ug/L		20.0	1	09/22/11 14:58	09/23/11 23:57	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/23/11 23:57	7440-22-4	
Sodium, Dissolved	2290 ug/L		50.0	1	09/22/11 14:58	09/23/11 23:57	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/23/11 23:57	7440-28-0	
Vanadium, Dissolved	0.14 ug/L		0.10	1	09/22/11 14:58	09/23/11 23:57	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	09/22/11 14:58	09/23/11 23:57	7440-66-6	

Date: 10/03/2011 09:11 AM

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-1	Lab ID: 60106356001	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 08:47	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 09:53	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	222	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	142	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.11	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	90.0	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	90.0	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	137	mg/L	5.0	1		09/22/11 13:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	8.0	mg/L	5.0	1		09/22/11 11:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	42.9	mg/L	5.0	5		09/29/11 17:48	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:19	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-2	Lab ID: 60106356002	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	162 ug/L		4.0	1	09/22/11 14:56	09/26/11 17:35	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7440-38-2	
Barium	61.6 ug/L		0.30	1	09/22/11 14:56	09/26/11 17:35	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 17:35	7440-41-7	
Cadmium	ND ug/L		0.080	1	09/22/11 14:56	09/26/11 17:35	7440-43-9	
Calcium	42900 ug/L		400	20	09/22/11 14:56	09/26/11 17:40	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7440-47-3	
Copper	0.00066 mg/L		0.00050	1	09/22/11 14:56	09/26/11 17:35	7440-50-8	
Iron	184 ug/L		50.0	1	09/22/11 14:56	09/26/11 17:35	7439-89-6	
Lead	0.26 ug/L		0.10	1	09/22/11 14:56	09/26/11 17:35	7439-92-1	
Magnesium	6090 ug/L		5.0	1	09/22/11 14:56	09/26/11 17:35	7439-95-4	
Manganese	75.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7439-96-5	
Nickel	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7440-02-0	
Potassium	764 ug/L		20.0	1	09/22/11 14:56	09/26/11 17:35	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:35	7440-22-4	
Sodium	2490 ug/L		50.0	1	09/22/11 14:56	09/26/11 17:35	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 17:35	7440-28-0	
Total Hardness by 2340B	132000 ug/L		1420	20	09/22/11 14:56	09/26/11 17:40		
Vanadium	0.49 ug/L		0.10	1	09/22/11 14:56	09/26/11 17:35	7440-62-2	
Zinc	5.6 ug/L		5.0	1	09/22/11 14:56	09/26/11 17:35	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	8.4 ug/L		4.0	1	09/22/11 14:58	09/26/11 14:10	7429-90-5	M1
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-38-2	
Barium, Dissolved	62.0 ug/L		0.30	1	09/22/11 14:58	09/26/11 14:10	7440-39-3	M1
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/26/11 14:10	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	09/22/11 14:58	09/26/11 14:10	7440-43-9	
Calcium, Dissolved	47400 ug/L		100	5	09/22/11 14:58	09/26/11 14:24	7440-70-2	M1
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-47-3	
Copper, Dissolved	0.55 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-50-8	
Iron, Dissolved	81.0 ug/L		50.0	1	09/22/11 14:58	09/26/11 14:10	7439-89-6	M1
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:10	7439-92-1	M1
Magnesium, Dissolved	6050 ug/L		5.0	1	09/22/11 14:58	09/26/11 14:10	7439-95-4	M1
Manganese, Dissolved	70.9 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7439-96-5	
Nickel, Dissolved	0.80 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-02-0	
Potassium, Dissolved	726 ug/L		20.0	1	09/22/11 14:58	09/26/11 14:10	7440-09-7	M1
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:10	7440-22-4	M1
Sodium, Dissolved	2570 ug/L		50.0	1	09/22/11 14:58	09/26/11 14:10	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:10	7440-28-0	
Vanadium, Dissolved	0.12 ug/L		0.10	1	09/22/11 14:58	09/26/11 14:10	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	09/22/11 14:58	09/26/11 14:10	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-2	Lab ID: 60106356002	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 08:49	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 09:55	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	248	umhos/cm	10.0	1			09/28/11 11:39	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	159	mg/L	6.0	1			09/28/11 12:28	
Salinity (as seawater)	0.12	PSU	0.010	1			09/28/11 12:28	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	88.0	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Total as CaCO3	88.0	mg/L	20.0	1			09/29/11 14:00	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	151	mg/L	5.0	1			09/22/11 13:57	
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	9.0	mg/L	5.0	1			09/22/11 11:26	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	53.1	mg/L	5.0	5			09/29/11 18:03	14808-79-8
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1			09/28/11 16:22	57-12-5

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-3	Lab ID: 60106356003	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	252 ug/L		4.0	1	09/22/11 14:56	09/26/11 17:44	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7440-38-2	
Barium	18.4 ug/L		0.30	1	09/22/11 14:56	09/26/11 17:44	7440-39-3	
Beryllium	0.62 ug/L		0.20	1	09/22/11 14:56	09/26/11 17:44	7440-41-7	
Cadmium	18.5 ug/L		0.080	1	09/22/11 14:56	09/26/11 17:44	7440-43-9	
Calcium	210000 ug/L		400	20	09/22/11 14:56	09/26/11 17:49	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7440-47-3	
Copper	0.038 mg/L		0.00050	1	09/22/11 14:56	09/26/11 17:44	7440-50-8	
Iron	4650 ug/L		50.0	1	09/22/11 14:56	09/26/11 17:44	7439-89-6	
Lead	1.4 ug/L		0.10	1	09/22/11 14:56	09/26/11 17:44	7439-92-1	
Magnesium	18500 ug/L		5.0	1	09/22/11 14:56	09/26/11 17:44	7439-95-4	
Manganese	2180 ug/L		10.0	20	09/22/11 14:56	09/26/11 17:49	7439-96-5	
Nickel	6.4 ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7440-02-0	
Potassium	1560 ug/L		20.0	1	09/22/11 14:56	09/26/11 17:44	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 17:44	7440-22-4	
Sodium	8480 ug/L		50.0	1	09/22/11 14:56	09/26/11 17:44	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 17:44	7440-28-0	
Total Hardness by 2340B	600000 ug/L		1420	20	09/22/11 14:56	09/26/11 17:49		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 17:44	7440-62-2	
Zinc	3730 ug/L		100	20	09/22/11 14:56	09/26/11 17:49	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	35.4 ug/L		4.0	1	09/22/11 14:58	09/26/11 14:29	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-38-2	
Barium, Dissolved	18.4 ug/L		0.30	1	09/22/11 14:58	09/26/11 14:29	7440-39-3	
Beryllium, Dissolved	0.39 ug/L		0.20	1	09/22/11 14:58	09/26/11 14:29	7440-41-7	
Cadmium, Dissolved	18.2 ug/L		0.080	1	09/22/11 14:58	09/26/11 14:29	7440-43-9	
Calcium, Dissolved	216000 ug/L		400	20	09/22/11 14:58	09/26/11 14:34	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-47-3	
Copper, Dissolved	3.9 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-50-8	
Iron, Dissolved	2050 ug/L		50.0	1	09/22/11 14:58	09/26/11 14:29	7439-89-6	
Lead, Dissolved	0.11 ug/L		0.10	1	09/22/11 14:58	09/26/11 14:29	7439-92-1	
Magnesium, Dissolved	18500 ug/L		5.0	1	09/22/11 14:58	09/26/11 14:29	7439-95-4	
Manganese, Dissolved	2250 ug/L		10.0	20	09/22/11 14:58	09/26/11 14:34	7439-96-5	
Nickel, Dissolved	6.5 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-02-0	
Potassium, Dissolved	1560 ug/L		20.0	1	09/22/11 14:58	09/26/11 14:29	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:29	7440-22-4	
Sodium, Dissolved	8430 ug/L		50.0	1	09/22/11 14:58	09/26/11 14:29	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:29	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:29	7440-62-2	
Zinc, Dissolved	3740 ug/L		100	20	09/22/11 14:58	09/26/11 14:34	7440-66-6	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-3	Lab ID: 60106356003	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:00	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 09:57	7439-97-6	M1
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1020	umhos/cm	10.0	1			09/28/11 11:39	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	654	mg/L	6.0	1			09/28/11 12:28	
Salinity (as seawater)	0.50	PSU	0.010	1			09/28/11 12:28	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	102	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Total as CaCO3	102	mg/L	20.0	1			09/29/11 14:00	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	869	mg/L	5.0	1			09/22/11 13:57	
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	11.0	mg/L	5.0	1			09/22/11 11:26	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	543	mg/L	50.0	50			09/29/11 01:56	14808-79-8
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1			09/28/11 16:23	57-12-5

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-4	Lab ID: 60106356004	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	175 ug/L		4.0	1	09/22/11 14:56	09/26/11 18:03	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7440-38-2	
Barium	18.0 ug/L		0.30	1	09/22/11 14:56	09/26/11 18:03	7440-39-3	
Beryllium	0.43 ug/L		0.20	1	09/22/11 14:56	09/26/11 18:03	7440-41-7	
Cadmium	17.6 ug/L		0.080	1	09/22/11 14:56	09/26/11 18:03	7440-43-9	
Calcium	212000 ug/L		400	20	09/22/11 14:56	09/26/11 18:08	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7440-47-3	
Copper	0.027 mg/L		0.00050	1	09/22/11 14:56	09/26/11 18:03	7440-50-8	
Iron	3160 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:03	7439-89-6	
Lead	0.96 ug/L		0.10	1	09/22/11 14:56	09/26/11 18:03	7439-92-1	
Magnesium	18300 ug/L		5.0	1	09/22/11 14:56	09/26/11 18:03	7439-95-4	
Manganese	2160 ug/L		10.0	20	09/22/11 14:56	09/26/11 18:08	7439-96-5	
Nickel	6.0 ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7440-02-0	
Potassium	1540 ug/L		20.0	1	09/22/11 14:56	09/26/11 18:03	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:03	7440-22-4	
Sodium	8310 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:03	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:03	7440-28-0	
Total Hardness by 2340B	605000 ug/L		1420	20	09/22/11 14:56	09/26/11 18:08		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:03	7440-62-2	
Zinc	3610 ug/L		100	20	09/22/11 14:56	09/26/11 18:08	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	13.6 ug/L		4.0	1	09/22/11 14:58	09/26/11 14:38	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-38-2	
Barium, Dissolved	18.3 ug/L		0.30	1	09/22/11 14:58	09/26/11 14:38	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/26/11 14:38	7440-41-7	
Cadmium, Dissolved	15.3 ug/L		0.080	1	09/22/11 14:58	09/26/11 14:38	7440-43-9	
Calcium, Dissolved	210000 ug/L		400	20	09/22/11 14:58	09/26/11 14:43	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-47-3	
Copper, Dissolved	1.1 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/26/11 14:38	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:38	7439-92-1	
Magnesium, Dissolved	18000 ug/L		5.0	1	09/22/11 14:58	09/26/11 14:38	7439-95-4	
Manganese, Dissolved	2130 ug/L		10.0	20	09/22/11 14:58	09/26/11 14:43	7439-96-5	
Nickel, Dissolved	6.4 ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-02-0	
Potassium, Dissolved	1530 ug/L		20.0	1	09/22/11 14:58	09/26/11 14:38	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 14:38	7440-22-4	
Sodium, Dissolved	8250 ug/L		50.0	1	09/22/11 14:58	09/26/11 14:38	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:38	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 14:38	7440-62-2	
Zinc, Dissolved	3180 ug/L		100	20	09/22/11 14:58	09/26/11 14:43	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-4	Lab ID: 60106356004	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:02	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:04	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1010	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	649	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.50	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	100	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	100	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	844	mg/L	5.0	1		09/22/11 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	12.0	mg/L	5.0	1		09/22/11 11:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	555	mg/L	50.0	50		09/29/11 02:11	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:23	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Sample: DR-5	Lab ID: 60106356005	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	88.7 ug/L		4.0	1	09/22/11 14:56	09/26/11 18:13	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7440-38-2	
Barium	17.3 ug/L		0.30	1	09/22/11 14:56	09/26/11 18:13	7440-39-3	
Beryllium	0.28 ug/L		0.20	1	09/22/11 14:56	09/26/11 18:13	7440-41-7	
Cadmium	15.1 ug/L		0.080	1	09/22/11 14:56	09/26/11 18:13	7440-43-9	
Calcium	210000 ug/L		400	20	09/22/11 14:56	09/26/11 18:18	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7440-47-3	
Copper	0.014 mg/L		0.00050	1	09/22/11 14:56	09/26/11 18:13	7440-50-8	
Iron	1510 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:13	7439-89-6	
Lead	0.44 ug/L		0.10	1	09/22/11 14:56	09/26/11 18:13	7439-92-1	
Magnesium	18400 ug/L		5.0	1	09/22/11 14:56	09/26/11 18:13	7439-95-4	
Manganese	1950 ug/L		10.0	20	09/22/11 14:56	09/26/11 18:18	7439-96-5	
Nickel	5.6 ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7440-02-0	
Potassium	1650 ug/L		20.0	1	09/22/11 14:56	09/26/11 18:13	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:13	7440-22-4	
Sodium	8340 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:13	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:13	7440-28-0	
Total Hardness by 2340B	600000 ug/L		1420	20	09/22/11 14:56	09/26/11 18:18		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:13	7440-62-2	
Zinc	3070 ug/L		100	20	09/22/11 14:56	09/26/11 18:18	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	7.8 ug/L		4.0	1	09/22/11 14:58	09/24/11 01:11	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-38-2	
Barium, Dissolved	18.8 ug/L		0.30	1	09/22/11 14:58	09/24/11 01:11	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 01:11	7440-41-7	
Cadmium, Dissolved	13.7 ug/L		0.080	1	09/22/11 14:58	09/24/11 01:11	7440-43-9	
Calcium, Dissolved	226000 ug/L		400	20	09/22/11 14:58	09/26/11 15:02	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-47-3	
Copper, Dissolved	1.1 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-50-8	
Iron, Dissolved	69.6 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:11	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:11	7439-92-1	
Magnesium, Dissolved	18600 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:11	7439-95-4	
Manganese, Dissolved	2120 ug/L		10.0	20	09/22/11 14:58	09/26/11 15:02	7439-96-5	
Nickel, Dissolved	5.8 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-02-0	
Potassium, Dissolved	1660 ug/L		20.0	1	09/22/11 14:58	09/24/11 01:11	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:11	7440-22-4	
Sodium, Dissolved	8540 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:11	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:11	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:11	7440-62-2	
Zinc, Dissolved	2970 ug/L		100	20	09/22/11 14:58	09/26/11 15:02	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-5	Lab ID: 60106356005	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:04	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:10	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	985	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	631	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.48	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	106	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	106	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	865	mg/L	5.0	1		09/22/11 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	7.0	mg/L	5.0	1		09/22/11 11:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	540	mg/L	50.0	50		09/29/11 02:26	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:27	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-6	Lab ID: 60106356006	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	39.0 ug/L		4.0	1	09/22/11 14:56	09/26/11 18:23	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7440-38-2	
Barium	17.9 ug/L		0.30	1	09/22/11 14:56	09/26/11 18:23	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 18:23	7440-41-7	
Cadmium	12.8 ug/L		0.080	1	09/22/11 14:56	09/26/11 18:23	7440-43-9	
Calcium	224000 ug/L		400	20	09/22/11 14:56	09/26/11 18:27	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7440-47-3	
Copper	0.0055 mg/L		0.00050	1	09/22/11 14:56	09/26/11 18:23	7440-50-8	
Iron	606 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:23	7439-89-6	
Lead	0.49 ug/L		0.10	1	09/22/11 14:56	09/26/11 18:23	7439-92-1	
Magnesium	20600 ug/L		5.0	1	09/22/11 14:56	09/26/11 18:23	7439-95-4	
Manganese	1760 ug/L		10.0	20	09/22/11 14:56	09/26/11 18:27	7439-96-5	
Nickel	5.4 ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7440-02-0	
Potassium	2260 ug/L		20.0	1	09/22/11 14:56	09/26/11 18:23	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:23	7440-22-4	
Sodium	10200 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:23	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:23	7440-28-0	
Total Hardness by 2340B	645000 ug/L		1420	20	09/22/11 14:56	09/26/11 18:27		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:23	7440-62-2	
Zinc	2760 ug/L		100	20	09/22/11 14:56	09/26/11 18:27	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	6.1 ug/L		4.0	1	09/22/11 14:58	09/24/11 01:20	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-38-2	
Barium, Dissolved	19.1 ug/L		0.30	1	09/22/11 14:58	09/24/11 01:20	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 01:20	7440-41-7	
Cadmium, Dissolved	12.4 ug/L		0.080	1	09/22/11 14:58	09/24/11 01:20	7440-43-9	
Calcium, Dissolved	267000 ug/L		400	20	09/22/11 14:58	09/26/11 15:07	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-47-3	
Copper, Dissolved	1.3 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 01:20	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:20	7439-92-1	
Magnesium, Dissolved	20800 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:20	7439-95-4	
Manganese, Dissolved	2110 ug/L		10.0	20	09/22/11 14:58	09/26/11 15:07	7439-96-5	
Nickel, Dissolved	5.1 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-02-0	
Potassium, Dissolved	2260 ug/L		20.0	1	09/22/11 14:58	09/24/11 01:20	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:20	7440-22-4	
Sodium, Dissolved	10500 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:20	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:20	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:20	7440-62-2	
Zinc, Dissolved	3240 ug/L		100	20	09/22/11 14:58	09/26/11 15:07	7440-66-6	

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-6	Lab ID: 60106356006	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:06	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:12	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1040	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	664	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.51	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	122	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	122	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	916	mg/L	5.0	1		09/22/11 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/22/11 11:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	546	mg/L	50.0	50		09/29/11 02:41	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:27	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-7	Lab ID: 60106356007	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	110 ug/L		4.0	1	09/22/11 14:56	09/27/11 15:55	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7440-36-0	
Arsenic	0.64 ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7440-38-2	
Barium	56.6 ug/L		0.30	1	09/22/11 14:56	09/27/11 15:55	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/27/11 15:55	7440-41-7	
Cadmium	1.1 ug/L		0.080	1	09/22/11 14:56	09/27/11 15:55	7440-43-9	
Calcium	64800 ug/L		400	20	09/22/11 14:56	09/26/11 18:37	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7440-47-3	
Copper	0.00097 mg/L		0.00050	1	09/22/11 14:56	09/27/11 15:55	7440-50-8	
Iron	256 ug/L		50.0	1	09/22/11 14:56	09/27/11 15:55	7439-89-6	
Lead	0.21 ug/L		0.10	1	09/22/11 14:56	09/27/11 15:55	7439-92-1	
Magnesium	8960 ug/L		5.0	1	09/22/11 14:56	09/27/11 15:55	7439-95-4	
Manganese	239 ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7439-96-5	
Nickel	0.68 ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7440-02-0	
Potassium	1430 ug/L		20.0	1	09/22/11 14:56	09/27/11 15:55	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/27/11 15:55	7440-22-4	
Sodium	4510 ug/L		50.0	1	09/22/11 14:56	09/27/11 15:55	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/27/11 15:55	7440-28-0	
Total Hardness by 2340B	199000 ug/L		1420	20	09/22/11 14:56	09/26/11 18:37		
Vanadium	0.32 ug/L		0.10	1	09/22/11 14:56	09/27/11 15:55	7440-62-2	
Zinc	224 ug/L		5.0	1	09/22/11 14:56	09/27/11 15:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	7.9 ug/L		4.0	1	09/22/11 14:58	09/24/11 01:29	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-36-0	
Arsenic, Dissolved	0.70 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-38-2	
Barium, Dissolved	59.0 ug/L		0.30	1	09/22/11 14:58	09/24/11 01:29	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 01:29	7440-41-7	
Cadmium, Dissolved	1.0 ug/L		0.080	1	09/22/11 14:58	09/24/11 01:29	7440-43-9	
Calcium, Dissolved	74300 ug/L		100	5	09/22/11 14:58	09/26/11 15:12	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-47-3	
Copper, Dissolved	0.61 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-50-8	
Iron, Dissolved	63.0 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:29	7439-89-6	
Lead, Dissolved	0.10 ug/L		0.10	1	09/22/11 14:58	09/24/11 01:29	7439-92-1	
Magnesium, Dissolved	9140 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:29	7439-95-4	
Manganese, Dissolved	258 ug/L		2.5	5	09/22/11 14:58	09/26/11 15:12	7439-96-5	
Nickel, Dissolved	1.5 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-02-0	
Potassium, Dissolved	1460 ug/L		20.0	1	09/22/11 14:58	09/24/11 01:29	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:29	7440-22-4	
Sodium, Dissolved	4710 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:29	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:29	7440-28-0	
Vanadium, Dissolved	0.11 ug/L		0.10	1	09/22/11 14:58	09/24/11 01:29	7440-62-2	
Zinc, Dissolved	226 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:29	7440-66-6	

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-7	Lab ID: 60106356007	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	394	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	252	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.19	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	108	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	108	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	264	mg/L	5.0	1		09/22/11 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/22/11 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	108	mg/L	10.0	10		09/29/11 18:19	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:30	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-8	Lab ID: 60106356008	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	250 ug/L		4.0	1	09/22/11 14:56	09/26/11 18:42	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7440-38-2	
Barium	18.4 ug/L		0.30	1	09/22/11 14:56	09/26/11 18:42	7440-39-3	
Beryllium	0.60 ug/L		0.20	1	09/22/11 14:56	09/26/11 18:42	7440-41-7	
Cadmium	18.4 ug/L		0.080	1	09/22/11 14:56	09/26/11 18:42	7440-43-9	
Calcium	214000 ug/L		400	20	09/22/11 14:56	09/26/11 18:46	7440-70-2	
Chromium	0.57 ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7440-47-3	
Copper	0.038 mg/L		0.00050	1	09/22/11 14:56	09/26/11 18:42	7440-50-8	
Iron	4580 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:42	7439-89-6	
Lead	1.4 ug/L		0.10	1	09/22/11 14:56	09/26/11 18:42	7439-92-1	
Magnesium	18400 ug/L		5.0	1	09/22/11 14:56	09/26/11 18:42	7439-95-4	
Manganese	2220 ug/L		10.0	20	09/22/11 14:56	09/26/11 18:46	7439-96-5	
Nickel	6.3 ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7440-02-0	
Potassium	1550 ug/L		20.0	1	09/22/11 14:56	09/26/11 18:42	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 18:42	7440-22-4	
Sodium	8370 ug/L		50.0	1	09/22/11 14:56	09/26/11 18:42	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:42	7440-28-0	
Total Hardness by 2340B	611000 ug/L		1420	20	09/22/11 14:56	09/26/11 18:46		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 18:42	7440-62-2	
Zinc	3800 ug/L		100	20	09/22/11 14:56	09/26/11 18:46	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	42.1 ug/L		4.0	1	09/22/11 14:58	09/24/11 01:39	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-38-2	
Barium, Dissolved	18.1 ug/L		0.30	1	09/22/11 14:58	09/24/11 01:39	7440-39-3	
Beryllium, Dissolved	0.36 ug/L		0.20	1	09/22/11 14:58	09/24/11 01:39	7440-41-7	
Cadmium, Dissolved	17.7 ug/L		0.080	1	09/22/11 14:58	09/24/11 01:39	7440-43-9	
Calcium, Dissolved	222000 ug/L		400	20	09/22/11 14:58	09/26/11 15:17	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-47-3	
Copper, Dissolved	4.2 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-50-8	
Iron, Dissolved	1970 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:39	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:39	7439-92-1	
Magnesium, Dissolved	18300 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:39	7439-95-4	
Manganese, Dissolved	2310 ug/L		10.0	20	09/22/11 14:58	09/26/11 15:17	7439-96-5	
Nickel, Dissolved	6.0 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-02-0	
Potassium, Dissolved	1510 ug/L		20.0	1	09/22/11 14:58	09/24/11 01:39	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:39	7440-22-4	
Sodium, Dissolved	8500 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:39	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:39	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:39	7440-62-2	
Zinc, Dissolved	3860 ug/L		100	20	09/22/11 14:58	09/26/11 15:17	7440-66-6	

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-8	Lab ID: 60106356008	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:10	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:16	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	970	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	621	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.48	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	100	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	100	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	884	mg/L	5.0	1		09/22/11 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	8.0	mg/L	5.0	1		09/22/11 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	550	mg/L	50.0	50		09/29/11 03:42	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:30	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-4-SW	Lab ID: 60106356009	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	133 ug/L		4.0	1	09/22/11 14:56	09/26/11 19:01	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7440-38-2	
Barium	61.1 ug/L		0.30	1	09/22/11 14:56	09/26/11 19:01	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 19:01	7440-41-7	
Cadmium	0.66 ug/L		0.080	1	09/22/11 14:56	09/26/11 19:01	7440-43-9	
Calcium	56400 ug/L		400	20	09/22/11 14:56	09/26/11 19:06	7440-70-2	
Chromium	0.52 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7440-47-3	
Copper	0.00094 mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:01	7440-50-8	
Iron	223 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:01	7439-89-6	
Lead	0.43 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:01	7439-92-1	
Magnesium	7510 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:01	7439-95-4	
Manganese	150 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7439-96-5	
Nickel	0.72 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7440-02-0	
Potassium	1040 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:01	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:01	7440-22-4	
Sodium	3150 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:01	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:01	7440-28-0	
Total Hardness by 2340B	172000 ug/L		1420	20	09/22/11 14:56	09/26/11 19:06		
Vanadium	0.39 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:01	7440-62-2	
Zinc	135 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:01	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	8.6 ug/L		4.0	1	09/22/11 14:58	09/24/11 01:48	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-38-2	
Barium, Dissolved	60.6 ug/L		0.30	1	09/22/11 14:58	09/24/11 01:48	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 01:48	7440-41-7	
Cadmium, Dissolved	0.66 ug/L		0.080	1	09/22/11 14:58	09/24/11 01:48	7440-43-9	
Calcium, Dissolved	59600 ug/L		100	5	09/22/11 14:58	09/26/11 15:21	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-47-3	
Copper, Dissolved	0.97 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 01:48	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:48	7439-92-1	
Magnesium, Dissolved	7570 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:48	7439-95-4	
Manganese, Dissolved	149 ug/L		2.5	5	09/22/11 14:58	09/26/11 15:21	7439-96-5	
Nickel, Dissolved	0.58 ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-02-0	
Potassium, Dissolved	986 ug/L		20.0	1	09/22/11 14:58	09/24/11 01:48	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 01:48	7440-22-4	
Sodium, Dissolved	3320 ug/L		50.0	1	09/22/11 14:58	09/24/11 01:48	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 01:48	7440-28-0	
Vanadium, Dissolved	0.10 ug/L		0.10	1	09/22/11 14:58	09/24/11 01:48	7440-62-2	
Zinc, Dissolved	128 ug/L		5.0	1	09/22/11 14:58	09/24/11 01:48	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-4-SW	Lab ID: 60106356009	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	318	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	203	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.15	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	104	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	104	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	207	mg/L	5.0	1		09/22/11 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	6.0	mg/L	5.0	1		09/22/11 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	80.0	mg/L	5.0	5		09/29/11 04:28	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:31	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-G	Lab ID: 60106356010	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	9.9 ug/L		4.0	1	09/22/11 14:56	09/26/11 19:10	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7440-38-2	
Barium	75.8 ug/L		0.30	1	09/22/11 14:56	09/26/11 19:10	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 19:10	7440-41-7	
Cadmium	0.43 ug/L		0.080	1	09/22/11 14:56	09/26/11 19:10	7440-43-9	
Calcium	56800 ug/L		400	20	09/22/11 14:56	09/26/11 19:15	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7440-47-3	
Copper	0.00074 mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:10	7440-50-8	
Iron	ND ug/L		50.0	1	09/22/11 14:56	09/26/11 19:10	7439-89-6	
Lead	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:10	7439-92-1	
Magnesium	7500 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:10	7439-95-4	
Manganese	70.4 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7439-96-5	
Nickel	1.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7440-02-0	
Potassium	1020 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:10	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:10	7440-22-4	
Sodium	3200 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:10	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:10	7440-28-0	
Total Hardness by 2340B	173000 ug/L		1420	20	09/22/11 14:56	09/26/11 19:15		
Vanadium	0.18 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:10	7440-62-2	
Zinc	72.1 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:10	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	208 ug/L		4.0	1	09/22/11 14:58	09/24/11 02:07	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-38-2	
Barium, Dissolved	78.2 ug/L		0.30	1	09/22/11 14:58	09/24/11 02:07	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 02:07	7440-41-7	
Cadmium, Dissolved	0.58 ug/L		0.080	1	09/22/11 14:58	09/24/11 02:07	7440-43-9	
Calcium, Dissolved	63200 ug/L		100	5	09/22/11 14:58	09/26/11 15:26	7440-70-2	
Chromium, Dissolved	0.53 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-47-3	
Copper, Dissolved	1.1 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-50-8	
Iron, Dissolved	338 ug/L		50.0	1	09/22/11 14:58	09/24/11 02:07	7439-89-6	
Lead, Dissolved	0.84 ug/L		0.10	1	09/22/11 14:58	09/24/11 02:07	7439-92-1	
Magnesium, Dissolved	7720 ug/L		5.0	1	09/22/11 14:58	09/24/11 02:07	7439-95-4	
Manganese, Dissolved	110 ug/L		2.5	5	09/22/11 14:58	09/26/11 15:26	7439-96-5	
Nickel, Dissolved	0.71 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-02-0	
Potassium, Dissolved	1060 ug/L		20.0	1	09/22/11 14:58	09/24/11 02:07	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:07	7440-22-4	
Sodium, Dissolved	3220 ug/L		50.0	1	09/22/11 14:58	09/24/11 02:07	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:07	7440-28-0	
Vanadium, Dissolved	0.80 ug/L		0.10	1	09/22/11 14:58	09/24/11 02:07	7440-62-2	
Zinc, Dissolved	105 ug/L		5.0	1	09/22/11 14:58	09/24/11 02:07	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: DR-G	Lab ID: 60106356010	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	303	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	194	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.15	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	116	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	116	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	211	mg/L	5.0	1		09/22/11 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	33.0	mg/L	5.0	1		09/22/11 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	71.0	mg/L	5.0	5		09/29/11 18:34	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:32	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: FB	Lab ID: 60106356011	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	ND ug/L		4.0	1	09/22/11 14:56	09/26/11 19:20	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7440-38-2	
Barium	ND ug/L		0.30	1	09/22/11 14:56	09/26/11 19:20	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 19:20	7440-41-7	
Cadmium	ND ug/L		0.080	1	09/22/11 14:56	09/26/11 19:20	7440-43-9	
Calcium	23.6 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:20	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7440-47-3	
Copper	ND mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:20	7440-50-8	
Iron	ND ug/L		50.0	1	09/22/11 14:56	09/26/11 19:20	7439-89-6	
Lead	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:20	7439-92-1	
Magnesium	ND ug/L		5.0	1	09/22/11 14:56	09/26/11 19:20	7439-95-4	
Manganese	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7439-96-5	
Nickel	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7440-02-0	
Potassium	ND ug/L		20.0	1	09/22/11 14:56	09/26/11 19:20	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:20	7440-22-4	
Sodium	ND ug/L		50.0	1	09/22/11 14:56	09/26/11 19:20	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:20	7440-28-0	
Total Hardness by 2340B	ND ug/L		71.0	1	09/22/11 14:56	09/26/11 19:20		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:20	7440-62-2	
Zinc	ND ug/L		5.0	1	09/22/11 14:56	09/26/11 19:20	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		4.0	1	09/22/11 14:58	09/24/11 02:16	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-38-2	
Barium, Dissolved	0.32 ug/L		0.30	1	09/22/11 14:58	09/24/11 02:16	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 02:16	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	09/22/11 14:58	09/24/11 02:16	7440-43-9	
Calcium, Dissolved	ND ug/L		20.0	1	09/22/11 14:58	09/24/11 02:16	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-47-3	
Copper, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 02:16	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:16	7439-92-1	
Magnesium, Dissolved	ND ug/L		5.0	1	09/22/11 14:58	09/24/11 02:16	7439-95-4	
Manganese, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7439-96-5	
Nickel, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-02-0	
Potassium, Dissolved	ND ug/L		20.0	1	09/22/11 14:58	09/24/11 02:16	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:16	7440-22-4	
Sodium, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 02:16	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:16	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:16	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	09/22/11 14:58	09/24/11 02:16	7440-66-6	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: FB	Lab ID: 60106356011	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:20	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:26	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	3040	umhos/cm	10.0	1		09/29/11 16:32		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1950	mg/L	6.0	1		09/29/11 16:39		
Salinity (as seawater)	1.6	PSU	0.010	1		09/29/11 16:39		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	5.0	mg/L	5.0	1		09/22/11 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/22/11 11:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		09/29/11 05:14	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:34	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-1	Lab ID: 60106356012	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	13.7 ug/L		4.0	1	09/22/11 14:56	09/26/11 19:29	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7440-38-2	
Barium	40.0 ug/L		0.30	1	09/22/11 14:56	09/26/11 19:29	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 19:29	7440-41-7	
Cadmium	0.15 ug/L		0.080	1	09/22/11 14:56	09/26/11 19:29	7440-43-9	
Calcium	35200 ug/L		100	5	09/22/11 14:56	09/27/11 15:27	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7440-47-3	
Copper	0.0036 mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:29	7440-50-8	
Iron	ND ug/L		50.0	1	09/22/11 14:56	09/26/11 19:29	7439-89-6	
Lead	0.62 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:29	7439-92-1	
Magnesium	3910 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:29	7439-95-4	
Manganese	1.2 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7439-96-5	
Nickel	0.80 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7440-02-0	
Potassium	690 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:29	7440-09-7	
Selenium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:29	7440-22-4	
Sodium	1650 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:29	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:29	7440-28-0	
Total Hardness by 2340B	104000 ug/L		355	5	09/22/11 14:56	09/27/11 15:27		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:29	7440-62-2	
Zinc	7.7 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:29	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	4.8 ug/L		4.0	1	09/22/11 14:58	09/26/11 15:31	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-38-2	
Barium, Dissolved	39.1 ug/L		0.30	1	09/22/11 14:58	09/26/11 15:31	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/26/11 15:31	7440-41-7	
Cadmium, Dissolved	0.092 ug/L		0.080	1	09/22/11 14:58	09/26/11 15:31	7440-43-9	
Calcium, Dissolved	35400 ug/L		100	5	09/22/11 14:58	09/24/11 02:34	7440-70-2	M1
Chromium, Dissolved	0.55 ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-47-3	
Copper, Dissolved	2.6 ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/26/11 15:31	7439-89-6	
Lead, Dissolved	0.40 ug/L		0.10	1	09/22/11 14:58	09/26/11 15:31	7439-92-1	
Magnesium, Dissolved	3840 ug/L		5.0	1	09/22/11 14:58	09/26/11 15:31	7439-95-4	
Manganese, Dissolved	0.96 ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7439-96-5	
Nickel, Dissolved	0.69 ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-02-0	
Potassium, Dissolved	652 ug/L		20.0	1	09/22/11 14:58	09/26/11 15:31	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/26/11 15:31	7440-22-4	
Sodium, Dissolved	1640 ug/L		50.0	1	09/22/11 14:58	09/26/11 15:31	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 15:31	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/26/11 15:31	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	09/22/11 14:58	09/26/11 15:31	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-1	Lab ID: 60106356012	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:22	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:28	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	189	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	121	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.092	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	88.0	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Total as CaCO3	88.0	mg/L	20.0	1		09/28/11 18:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	129	mg/L	5.0	1		09/21/11 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		09/21/11 10:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	24.5	mg/L	2.0	2		09/29/11 18:49	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:35	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-3	Lab ID: 60106356013	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	16600 ug/L		4.0	1	09/22/11 14:56	09/26/11 19:39	7429-90-5	
Antimony	1.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7440-36-0	
Arsenic	34.0 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7440-38-2	
Barium	275 ug/L		0.30	1	09/22/11 14:56	09/26/11 19:39	7440-39-3	
Beryllium	0.90 ug/L		0.20	1	09/22/11 14:56	09/26/11 19:39	7440-41-7	
Cadmium	28.5 ug/L		0.080	1	09/22/11 14:56	09/26/11 19:39	7440-43-9	
Calcium	246000 ug/L		2000	100	09/22/11 14:56	09/27/11 15:31	7440-70-2	
Chromium	25.3 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7440-47-3	
Copper	0.21 mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:39	7440-50-8	
Iron	21800 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:39	7439-89-6	
Lead	299 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:39	7439-92-1	
Magnesium	217000 ug/L		100	20	09/22/11 14:56	09/26/11 19:44	7439-95-4	
Manganese	8810 ug/L		50.0	100	09/22/11 14:56	09/27/11 15:31	7439-96-5	
Nickel	33.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7440-02-0	
Potassium	6170 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:39	7440-09-7	
Selenium	8.2 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7782-49-2	
Silver	2.9 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:39	7440-22-4	
Sodium	5150 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:39	7440-23-5	
Thallium	0.66 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:39	7440-28-0	
Total Hardness by 2340B	1510000 ug/L		7100	100	09/22/11 14:56	09/27/11 15:31		
Vanadium	34.4 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:39	7440-62-2	
Zinc	8980 ug/L		100	20	09/22/11 14:56	09/26/11 19:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	16.2 ug/L		4.0	1	09/22/11 14:58	09/24/11 02:39	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-38-2	
Barium, Dissolved	12.6 ug/L		0.30	1	09/22/11 14:58	09/24/11 02:39	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 02:39	7440-41-7	
Cadmium, Dissolved	0.62 ug/L		0.080	1	09/22/11 14:58	09/24/11 02:39	7440-43-9	
Calcium, Dissolved	258000 ug/L		400	20	09/22/11 14:58	09/26/11 15:40	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-47-3	
Copper, Dissolved	1.4 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 02:39	7439-89-6	
Lead, Dissolved	0.22 ug/L		0.10	1	09/22/11 14:58	09/24/11 02:39	7439-92-1	
Magnesium, Dissolved	44600 ug/L		100	20	09/22/11 14:58	09/26/11 15:40	7439-95-4	
Manganese, Dissolved	814 ug/L		10.0	20	09/22/11 14:58	09/26/11 15:40	7439-96-5	
Nickel, Dissolved	0.82 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-02-0	
Potassium, Dissolved	3370 ug/L		20.0	1	09/22/11 14:58	09/24/11 02:39	7440-09-7	
Selenium, Dissolved	2.5 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:39	7440-22-4	
Sodium, Dissolved	4600 ug/L		50.0	1	09/22/11 14:58	09/24/11 02:39	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:39	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:39	7440-62-2	
Zinc, Dissolved	76.0 ug/L		5.0	1	09/22/11 14:58	09/24/11 02:39	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-3	Lab ID: 60106356013	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:24	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:31	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1090	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	700	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.54	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	230	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Total as CaCO3	230	mg/L	20.0	1		09/28/11 18:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	928	mg/L	5.0	1		09/21/11 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	83.0	mg/L	5.0	1		09/21/11 10:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	503	mg/L	50.0	50		09/29/11 19:04	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:35	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-4	Lab ID: 60106356014	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	310 ug/L		4.0	1	09/22/11 14:56	09/26/11 19:58	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7440-36-0	
Arsenic	1.3 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7440-38-2	
Barium	33.1 ug/L		0.30	1	09/22/11 14:56	09/26/11 19:58	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 19:58	7440-41-7	
Cadmium	0.19 ug/L		0.080	1	09/22/11 14:56	09/26/11 19:58	7440-43-9	
Calcium	127000 ug/L		2000	100	09/22/11 14:56	09/27/11 15:59	7440-70-2	
Chromium	0.79 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7440-47-3	
Copper	0.0042 mg/L		0.00050	1	09/22/11 14:56	09/26/11 19:58	7440-50-8	
Iron	2430 ug/L		50.0	1	09/22/11 14:56	09/26/11 19:58	7439-89-6	
Lead	10.1 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:58	7439-92-1	
Magnesium	14100 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:58	7439-95-4	
Manganese	3330 ug/L		10.0	20	09/22/11 14:56	09/26/11 20:03	7439-96-5	
Nickel	1.7 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7440-02-0	
Potassium	3060 ug/L		20.0	1	09/22/11 14:56	09/26/11 19:58	7440-09-7	
Selenium	0.64 ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 19:58	7440-22-4	
Sodium	405000 ug/L		1000	20	09/22/11 14:56	09/26/11 20:03	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 19:58	7440-28-0	
Total Hardness by 2340B	375000 ug/L		7100	100	09/22/11 14:56	09/27/11 15:59		
Vanadium	0.55 ug/L		0.10	1	09/22/11 14:56	09/26/11 19:58	7440-62-2	
Zinc	62.3 ug/L		5.0	1	09/22/11 14:56	09/26/11 19:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	5.8 ug/L		4.0	1	09/22/11 14:58	09/24/11 02:58	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-36-0	
Arsenic, Dissolved	0.72 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-38-2	
Barium, Dissolved	30.2 ug/L		0.30	1	09/22/11 14:58	09/24/11 02:58	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 02:58	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	09/22/11 14:58	09/24/11 02:58	7440-43-9	
Calcium, Dissolved	76600 ug/L		200	10	09/22/11 14:58	09/26/11 15:55	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-47-3	
Copper, Dissolved	0.60 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-50-8	
Iron, Dissolved	1220 ug/L		50.0	1	09/22/11 14:58	09/24/11 02:58	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:58	7439-92-1	
Magnesium, Dissolved	16500 ug/L		5.0	1	09/22/11 14:58	09/24/11 02:58	7439-95-4	
Manganese, Dissolved	486 ug/L		5.0	10	09/22/11 14:58	09/26/11 15:55	7439-96-5	
Nickel, Dissolved	1.3 ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-02-0	
Potassium, Dissolved	2910 ug/L		20.0	1	09/22/11 14:58	09/24/11 02:58	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 02:58	7440-22-4	
Sodium, Dissolved	39000 ug/L		500	10	09/22/11 14:58	09/26/11 15:55	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:58	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 02:58	7440-62-2	
Zinc, Dissolved	27.7 ug/L		5.0	1	09/22/11 14:58	09/24/11 02:58	7440-66-6	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-4	Lab ID: 60106356014	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:31	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:33	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	940	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	601	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.46	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	218	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Total as CaCO3	218	mg/L	20.0	1		09/28/11 18:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	772	mg/L	5.0	1		09/21/11 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	118	mg/L	5.0	1		09/21/11 10:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	394	mg/L	50.0	50		09/29/11 19:50	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:36	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-5	Lab ID: 60106356015	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	5900 ug/L		4.0	1	09/22/11 14:56	09/26/11 20:08	7429-90-5	
Antimony	12.0 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:08	7440-36-0	
Arsenic	8610 ug/L		50.0	100	09/22/11 14:56	09/26/11 20:17	7440-38-2	
Barium	24.7 ug/L		0.30	1	09/22/11 14:56	09/26/11 20:08	7440-39-3	
Beryllium	3.6 ug/L		0.20	1	09/22/11 14:56	09/26/11 20:08	7440-41-7	
Cadmium	13.9 ug/L		0.080	1	09/22/11 14:56	09/26/11 20:08	7440-43-9	
Calcium	439000 ug/L		2000	100	09/22/11 14:56	09/26/11 20:17	7440-70-2	
Chromium	3.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:08	7440-47-3	
Copper	0.46 mg/L		0.0050	10	09/22/11 14:56	09/26/11 20:12	7440-50-8	
Iron	841000 ug/L		5000	100	09/22/11 14:56	09/26/11 20:17	7439-89-6	
Lead	38000 ug/L		10.0	100	09/22/11 14:56	09/26/11 20:17	7439-92-1	
Magnesium	38800 ug/L		50.0	10	09/22/11 14:56	09/26/11 20:12	7439-95-4	
Manganese	10400 ug/L		50.0	100	09/22/11 14:56	09/26/11 20:17	7439-96-5	
Nickel	56.0 ug/L		5.0	10	09/22/11 14:56	09/26/11 20:12	7440-02-0	
Potassium	6100 ug/L		20.0	1	09/22/11 14:56	09/26/11 20:08	7440-09-7	
Selenium	9.8 ug/L		5.0	10	09/22/11 14:56	09/26/11 20:12	7782-49-2	
Silver	8.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:08	7440-22-4	
Sodium	4780 ug/L		50.0	1	09/22/11 14:56	09/26/11 20:08	7440-23-5	
Thallium	0.31 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:08	7440-28-0	
Total Hardness by 2340B	1260000 ug/L		7100	100	09/22/11 14:56	09/26/11 20:17		
Vanadium	12.3 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:08	7440-62-2	
Zinc	60400 ug/L		2500	500	09/22/11 14:56	09/27/11 16:04	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	6.3 ug/L		4.0	1	09/22/11 14:58	09/24/11 03:07	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-36-0	
Arsenic, Dissolved	40.9 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-38-2	
Barium, Dissolved	10.0 ug/L		0.30	1	09/22/11 14:58	09/24/11 03:07	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 03:07	7440-41-7	
Cadmium, Dissolved	0.54 ug/L		0.080	1	09/22/11 14:58	09/24/11 03:07	7440-43-9	
Calcium, Dissolved	378000 ug/L		1000	50	09/22/11 14:58	09/26/11 16:00	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-47-3	
Copper, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-50-8	
Iron, Dissolved	8050 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:07	7439-89-6	
Lead, Dissolved	10.5 ug/L		0.10	1	09/22/11 14:58	09/24/11 03:07	7439-92-1	
Magnesium, Dissolved	29500 ug/L		250	50	09/22/11 14:58	09/26/11 16:00	7439-95-4	
Manganese, Dissolved	6330 ug/L		25.0	50	09/22/11 14:58	09/26/11 16:00	7439-96-5	
Nickel, Dissolved	21.3 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-02-0	
Potassium, Dissolved	5060 ug/L		20.0	1	09/22/11 14:58	09/24/11 03:07	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:07	7440-22-4	
Sodium, Dissolved	5300 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:07	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:07	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:07	7440-62-2	
Zinc, Dissolved	9290 ug/L		250	50	09/22/11 14:58	09/26/11 16:00	7440-66-6	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-5	Lab ID: 60106356015	Collected: 09/14/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:33	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1550	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	990	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.78	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	84.0	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/28/11 18:00		
Alkalinity, Total as CaCO3	84.0	mg/L	20.0	1		09/28/11 18:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	4500	mg/L	5.0	1		09/21/11 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	195	mg/L	5.0	1		09/21/11 10:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	921	mg/L	100	100		09/29/11 20:05	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:40	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-6	Lab ID: 60106356016	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	5980 ug/L		4.0	1	09/22/11 14:56	09/26/11 20:22	7429-90-5	
Antimony	12.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:22	7440-36-0	
Arsenic	8470 ug/L		50.0	100	09/22/11 14:56	09/26/11 20:31	7440-38-2	
Barium	25.4 ug/L		0.30	1	09/22/11 14:56	09/26/11 20:22	7440-39-3	
Beryllium	3.6 ug/L		0.20	1	09/22/11 14:56	09/26/11 20:22	7440-41-7	
Cadmium	14.0 ug/L		0.080	1	09/22/11 14:56	09/26/11 20:22	7440-43-9	
Calcium	434000 ug/L		2000	100	09/22/11 14:56	09/26/11 20:31	7440-70-2	
Chromium	3.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:22	7440-47-3	
Copper	0.26 mg/L		0.00050	1	09/22/11 14:56	09/26/11 20:22	7440-50-8	
Iron	825000 ug/L		5000	100	09/22/11 14:56	09/26/11 20:31	7439-89-6	
Lead	37100 ug/L		10.0	100	09/22/11 14:56	09/26/11 20:31	7439-92-1	
Magnesium	33600 ug/L		50.0	10	09/22/11 14:56	09/26/11 20:27	7439-95-4	
Manganese	10200 ug/L		50.0	100	09/22/11 14:56	09/26/11 20:31	7439-96-5	
Nickel	32.6 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:22	7440-02-0	
Potassium	6070 ug/L		20.0	1	09/22/11 14:56	09/26/11 20:22	7440-09-7	
Selenium	5.2 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:22	7782-49-2	
Silver	8.4 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:22	7440-22-4	
Sodium	4730 ug/L		50.0	1	09/22/11 14:56	09/26/11 20:22	7440-23-5	
Thallium	0.31 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:22	7440-28-0	
Total Hardness by 2340B	1220000 ug/L		7100	100	09/22/11 14:56	09/26/11 20:31		
Vanadium	12.4 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:22	7440-62-2	
Zinc	11400 ug/L		2500	500	09/22/11 14:56	09/27/11 16:08	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	83.6 ug/L		4.0	1	09/22/11 14:58	09/24/11 03:16	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-36-0	
Arsenic, Dissolved	12.8 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-38-2	
Barium, Dissolved	44.2 ug/L		0.30	1	09/22/11 14:58	09/24/11 03:16	7440-39-3	
Beryllium, Dissolved	0.60 ug/L		0.20	1	09/22/11 14:58	09/24/11 03:16	7440-41-7	
Cadmium, Dissolved	3.0 ug/L		0.080	1	09/22/11 14:58	09/24/11 03:16	7440-43-9	
Calcium, Dissolved	350000 ug/L		1000	50	09/22/11 14:58	09/26/11 16:04	7440-70-2	
Chromium, Dissolved	0.63 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-47-3	
Copper, Dissolved	1.1 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-50-8	
Iron, Dissolved	44700 ug/L		250	5	09/22/11 14:58	09/24/11 03:21	7439-89-6	
Lead, Dissolved	6.6 ug/L		0.10	1	09/22/11 14:58	09/24/11 03:16	7439-92-1	
Magnesium, Dissolved	58100 ug/L		25.0	5	09/22/11 14:58	09/24/11 03:21	7439-95-4	
Manganese, Dissolved	10500 ug/L		25.0	50	09/22/11 14:58	09/26/11 16:04	7439-96-5	
Nickel, Dissolved	5.8 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-02-0	
Potassium, Dissolved	12600 ug/L		20.0	1	09/22/11 14:58	09/24/11 03:16	7440-09-7	
Selenium, Dissolved	0.67 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:16	7440-22-4	
Sodium, Dissolved	8140 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:16	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:16	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:16	7440-62-2	
Zinc, Dissolved	13700 ug/L		250	50	09/22/11 14:58	09/26/11 16:04	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-6	Lab ID: 60106356016	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:35	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:41	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2750	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1760	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	1.4	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	38.0	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	38.0	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1550	mg/L	5.0	1		09/22/11 14:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	533	mg/L	5.0	1		09/22/11 11:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	1030	mg/L	100	100		09/29/11 20:20	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:40	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-7	Lab ID: 60106356017	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	9870 ug/L		4.0	1	09/22/11 14:56	09/26/11 20:46	7429-90-5	
Antimony	1.6 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7440-36-0	
Arsenic	269 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7440-38-2	
Barium	80.2 ug/L		0.30	1	09/22/11 14:56	09/26/11 20:46	7440-39-3	
Beryllium	2.7 ug/L		0.20	1	09/22/11 14:56	09/26/11 20:46	7440-41-7	
Cadmium	23.5 ug/L		0.080	1	09/22/11 14:56	09/26/11 20:46	7440-43-9	
Calcium	490000 ug/L		2000	100	09/22/11 14:56	09/26/11 20:55	7440-70-2	
Chromium	11.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7440-47-3	
Copper	0.25 mg/L		0.00050	1	09/22/11 14:56	09/26/11 20:46	7440-50-8	
Iron	425000 ug/L		5000	100	09/22/11 14:56	09/26/11 20:55	7439-89-6	
Lead	3400 ug/L		1.0	10	09/22/11 14:56	09/26/11 20:51	7439-92-1	
Magnesium	131000 ug/L		50.0	10	09/22/11 14:56	09/26/11 20:51	7439-95-4	
Manganese	31500 ug/L		50.0	100	09/22/11 14:56	09/26/11 20:55	7439-96-5	
Nickel	15.3 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7440-02-0	
Potassium	30800 ug/L		200	10	09/22/11 14:56	09/26/11 20:51	7440-09-7	
Selenium	1.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7782-49-2	
Silver	6.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 20:46	7440-22-4	
Sodium	3940 ug/L		50.0	1	09/22/11 14:56	09/26/11 20:46	7440-23-5	
Thallium	0.49 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:46	7440-28-0	
Total Hardness by 2340B	1760000 ug/L		7100	100	09/22/11 14:56	09/26/11 20:55		
Vanadium	18.6 ug/L		0.10	1	09/22/11 14:56	09/26/11 20:46	7440-62-2	
Zinc	11300 ug/L		500	100	09/22/11 14:56	09/26/11 20:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	108 ug/L		4.0	1	09/22/11 14:58	09/24/11 03:26	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-38-2	
Barium, Dissolved	11.0 ug/L		0.30	1	09/22/11 14:58	09/24/11 03:26	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 03:26	7440-41-7	
Cadmium, Dissolved	3.6 ug/L		0.080	1	09/22/11 14:58	09/24/11 03:26	7440-43-9	
Calcium, Dissolved	347000 ug/L		1000	50	09/22/11 14:58	09/26/11 16:14	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-47-3	
Copper, Dissolved	5.8 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	09/22/11 14:58	09/24/11 03:26	7439-89-6	
Lead, Dissolved	5.5 ug/L		0.10	1	09/22/11 14:58	09/24/11 03:26	7439-92-1	
Magnesium, Dissolved	21700 ug/L		5.0	1	09/22/11 14:58	09/24/11 03:26	7439-95-4	
Manganese, Dissolved	75.7 ug/L		2.5	5	09/22/11 14:58	09/26/11 16:09	7439-96-5	
Nickel, Dissolved	2.6 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-02-0	
Potassium, Dissolved	2290 ug/L		20.0	1	09/22/11 14:58	09/24/11 03:26	7440-09-7	
Selenium, Dissolved	1.4 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:26	7440-22-4	
Sodium, Dissolved	6330 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:26	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:26	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:26	7440-62-2	
Zinc, Dissolved	174 ug/L		5.0	1	09/22/11 14:58	09/24/11 03:26	7440-66-6	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: GW-7	Lab ID: 60106356017	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:37	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:43	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	968	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	620	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	0.48	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	196	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	196	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	815	mg/L	5.0	1		09/22/11 14:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	19.0	mg/L	5.0	1		09/22/11 11:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	414	mg/L	50.0	50		09/29/11 20:36	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:43	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: EB-1	Lab ID: 60106356018	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	133 ug/L		4.0	1	09/22/11 14:56	09/26/11 21:00	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7440-36-0	
Arsenic	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7440-38-2	
Barium	11.8 ug/L		0.30	1	09/22/11 14:56	09/26/11 21:00	7440-39-3	
Beryllium	ND ug/L		0.20	1	09/22/11 14:56	09/26/11 21:00	7440-41-7	
Cadmium	3.4 ug/L		0.080	1	09/22/11 14:56	09/26/11 21:00	7440-43-9	
Calcium	229000 ug/L		2000	100	09/22/11 14:56	09/26/11 21:10	7440-70-2	
Chromium	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7440-47-3	
Copper	0.0039 mg/L		0.00050	1	09/22/11 14:56	09/26/11 21:00	7440-50-8	
Iron	171 ug/L		50.0	1	09/22/11 14:56	09/26/11 21:00	7439-89-6	
Lead	4.3 ug/L		0.10	1	09/22/11 14:56	09/26/11 21:00	7439-92-1	
Magnesium	20700 ug/L		5.0	1	09/22/11 14:56	09/26/11 21:00	7439-95-4	
Manganese	181 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7439-96-5	
Nickel	2.9 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7440-02-0	
Potassium	2250 ug/L		20.0	1	09/22/11 14:56	09/26/11 21:00	7440-09-7	
Selenium	1.1 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:00	7440-22-4	
Sodium	5990 ug/L		50.0	1	09/22/11 14:56	09/26/11 21:00	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 21:00	7440-28-0	
Total Hardness by 2340B	656000 ug/L		7100	100	09/22/11 14:56	09/26/11 21:10		
Vanadium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 21:00	7440-62-2	
Zinc	216 ug/L		5.0	1	09/22/11 14:56	09/26/11 21:00	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	4.4 ug/L		4.0	1	09/22/11 14:58	09/24/11 03:35	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-36-0	
Arsenic, Dissolved	1.2 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-38-2	
Barium, Dissolved	11.9 ug/L		0.30	1	09/22/11 14:58	09/24/11 03:35	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	09/22/11 14:58	09/24/11 03:35	7440-41-7	
Cadmium, Dissolved	0.21 ug/L		0.080	1	09/22/11 14:58	09/24/11 03:35	7440-43-9	
Calcium, Dissolved	796000 ug/L		1000	50	09/22/11 14:58	09/26/11 16:23	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-47-3	
Copper, Dissolved	0.69 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-50-8	
Iron, Dissolved	2180 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:35	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:35	7439-92-1	
Magnesium, Dissolved	39700 ug/L		25.0	5	09/22/11 14:58	09/26/11 16:19	7439-95-4	
Manganese, Dissolved	9680 ug/L		25.0	50	09/22/11 14:58	09/26/11 16:23	7439-96-5	
Nickel, Dissolved	6.5 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-02-0	
Potassium, Dissolved	8760 ug/L		20.0	1	09/22/11 14:58	09/24/11 03:35	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:35	7440-22-4	
Sodium, Dissolved	9660 ug/L		50.0	1	09/22/11 14:58	09/24/11 03:35	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:35	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:35	7440-62-2	
Zinc, Dissolved	1590 ug/L		25.0	5	09/22/11 14:58	09/26/11 16:19	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: EB-1	Lab ID: 60106356018	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:39	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:59	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2030	umhos/cm	10.0	1		09/28/11 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1300	mg/L	6.0	1		09/28/11 12:28		
Salinity (as seawater)	1.0	PSU	0.010	1		09/28/11 12:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	156	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/29/11 14:00		
Alkalinity, Total as CaCO3	156	mg/L	20.0	1		09/29/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2140	mg/L	5.0	1		09/22/11 14:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	113	mg/L	5.0	1		09/22/11 11:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	1400	mg/L	100	100		09/29/11 20:51	14808-79-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		09/28/11 16:43	57-12-5	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: EB-2	Lab ID: 60106356019	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8							
Aluminum	287 ug/L		4.0	1	09/22/11 14:56	09/26/11 21:14	7429-90-5	
Antimony	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7440-36-0	
Arsenic	51.6 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7440-38-2	
Barium	17.5 ug/L		0.30	1	09/22/11 14:56	09/26/11 21:14	7440-39-3	
Beryllium	0.59 ug/L		0.20	1	09/22/11 14:56	09/26/11 21:14	7440-41-7	
Cadmium	0.62 ug/L		0.080	1	09/22/11 14:56	09/26/11 21:14	7440-43-9	
Calcium	593000 ug/L		2000	100	09/22/11 14:56	09/26/11 21:24	7440-70-2	
Chromium	0.68 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7440-47-3	
Copper	0.024 mg/L		0.00050	1	09/22/11 14:56	09/26/11 21:14	7440-50-8	
Iron	43000 ug/L		500	10	09/22/11 14:56	09/26/11 21:19	7439-89-6	
Lead	60.3 ug/L		0.10	1	09/22/11 14:56	09/26/11 21:14	7439-92-1	
Magnesium	38100 ug/L		50.0	10	09/22/11 14:56	09/26/11 21:19	7439-95-4	
Manganese	8020 ug/L		50.0	100	09/22/11 14:56	09/26/11 21:24	7439-96-5	
Nickel	7.5 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7440-02-0	
Potassium	8690 ug/L		20.0	1	09/22/11 14:56	09/26/11 21:14	7440-09-7	
Selenium	0.79 ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7782-49-2	
Silver	ND ug/L		0.50	1	09/22/11 14:56	09/26/11 21:14	7440-22-4	
Sodium	9280 ug/L		50.0	1	09/22/11 14:56	09/26/11 21:14	7440-23-5	
Thallium	ND ug/L		0.10	1	09/22/11 14:56	09/26/11 21:14	7440-28-0	
Total Hardness by 2340B	1640000 ug/L		7100	100	09/22/11 14:56	09/26/11 21:24		
Vanadium	0.43 ug/L		0.10	1	09/22/11 14:56	09/26/11 21:14	7440-62-2	
Zinc	2290 ug/L		50.0	10	09/22/11 14:56	09/26/11 21:19	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8							
Aluminum, Dissolved	20600 ug/L		4.0	1	09/22/11 14:58	09/24/11 03:39	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-36-0	
Arsenic, Dissolved	3.0 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-38-2	
Barium, Dissolved	1.1 ug/L		0.30	1	09/22/11 14:58	09/24/11 03:39	7440-39-3	
Beryllium, Dissolved	7.6 ug/L		0.20	1	09/22/11 14:58	09/24/11 03:39	7440-41-7	
Cadmium, Dissolved	5.4 ug/L		0.080	1	09/22/11 14:58	09/24/11 03:39	7440-43-9	
Calcium, Dissolved	468000 ug/L		2000	100	09/22/11 14:58	09/26/11 16:33	7440-70-2	
Chromium, Dissolved	1.6 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-47-3	
Copper, Dissolved	98.0 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-50-8	
Iron, Dissolved	188000 ug/L		500	10	09/22/11 14:58	09/26/11 16:28	7439-89-6	
Lead, Dissolved	76.1 ug/L		0.10	1	09/22/11 14:58	09/24/11 03:39	7439-92-1	
Magnesium, Dissolved	171000 ug/L		50.0	10	09/22/11 14:58	09/26/11 16:28	7439-95-4	
Manganese, Dissolved	37400 ug/L		50.0	100	09/22/11 14:58	09/26/11 16:33	7439-96-5	
Nickel, Dissolved	67.7 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-02-0	
Potassium, Dissolved	6920 ug/L		20.0	1	09/22/11 14:58	09/24/11 03:39	7440-09-7	
Selenium, Dissolved	1.5 ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	09/22/11 14:58	09/24/11 03:39	7440-22-4	
Sodium, Dissolved	68800 ug/L		500	10	09/22/11 14:58	09/26/11 16:28	7440-23-5	
Thallium, Dissolved	0.25 ug/L		0.10	1	09/22/11 14:58	09/24/11 03:39	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	09/22/11 14:58	09/24/11 03:39	7440-62-2	
Zinc, Dissolved	44500 ug/L		500	100	09/22/11 14:58	09/26/11 16:33	7440-66-6	

ANALYTICAL RESULTS

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Sample: EB-2	Lab ID: 60106356019	Collected: 09/15/11 00:00	Received: 09/17/11 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
245.1 Mercury	Analytical Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	09/27/11 19:18	09/29/11 09:41	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	09/27/11 19:09	09/29/11 10:45	7439-97-6	M1
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	3690	umhos/cm	10.0	1			09/28/11 11:39	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	2360	mg/L	6.0	1			09/28/11 12:28	
Salinity (as seawater)	1.9	PSU	0.010	1			09/28/11 12:28	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1			09/29/11 14:00	
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1			09/29/11 14:00	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	3830	mg/L	5.0	1			09/22/11 14:00	
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	29.0	mg/L	5.0	1			09/22/11 11:35	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	2.7	Std. Units	0.10	1			09/17/11 12:40	H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	2800	mg/L	200	200			09/29/11 21:06	14808-79-8
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1			09/28/11 16:44	57-12-5

Appendix D
Laboratory QC Results

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	ICPM/28549	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013		

METHOD BLANK: 1058662 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014,
60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Aluminum	ug/L	ND	4.0	09/27/11 15:45	
Antimony	ug/L	ND	0.50	09/27/11 15:45	
Arsenic	ug/L	ND	0.50	09/27/11 15:45	
Barium	ug/L	ND	0.30	09/27/11 15:45	
Beryllium	ug/L	ND	0.20	09/27/11 15:45	
Cadmium	ug/L	ND	0.080	09/27/11 15:45	
Calcium	ug/L	ND	20.0	09/27/11 15:45	
Chromium	ug/L	ND	0.50	09/27/11 15:45	
Copper	mg/L	ND	0.00050	09/27/11 15:45	
Iron	ug/L	ND	50.0	09/27/11 15:45	
Lead	ug/L	ND	0.10	09/27/11 15:45	
Magnesium	ug/L	ND	5.0	09/27/11 15:45	
Manganese	ug/L	ND	0.50	09/27/11 15:45	
Nickel	ug/L	ND	0.50	09/27/11 15:45	
Potassium	ug/L	ND	20.0	09/27/11 15:45	
Selenium	ug/L	ND	0.50	09/27/11 15:45	
Silver	ug/L	ND	0.50	09/27/11 15:45	
Sodium	ug/L	ND	50.0	09/27/11 15:45	
Thallium	ug/L	ND	0.10	09/27/11 15:45	
Total Hardness by 2340B	ug/L	ND	71.0	09/27/11 15:45	
Vanadium	ug/L	ND	0.10	09/27/11 15:45	
Zinc	ug/L	ND	5.0	09/27/11 15:45	

LABORATORY CONTROL SAMPLE: 1058663

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Aluminum	ug/L	80	86.3	108	85-115	
Antimony	ug/L	80	78.2	98	85-115	
Arsenic	ug/L	80	80.4	100	85-115	
Barium	ug/L	80	79.0	99	85-115	
Beryllium	ug/L	80	78.8	99	85-115	
Cadmium	ug/L	80	80.0	100	85-115	
Calcium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	80	80.0	100	85-115	
Copper	mg/L	.08	0.081	101	85-115	
Iron	ug/L	1000	1030	103	85-115	
Lead	ug/L	80	78.8	98	85-115	
Magnesium	ug/L	1000	1020	102	85-115	
Manganese	ug/L	80	79.4	99	85-115	

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

LABORATORY CONTROL SAMPLE: 1058663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	80	84.0	105	85-115	
Potassium	ug/L	1000	1040	104	85-115	
Selenium	ug/L	80	84.3	105	85-115	
Silver	ug/L	80	74.3	93	85-115	
Sodium	ug/L	1000	984	98	85-115	
Thallium	ug/L	80	79.5	99	85-115	
Total Hardness by 2340B	ug/L		6770			
Vanadium	ug/L	80	80.3	100	85-115	
Zinc	ug/L	80	82.5	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1058664 1058665

Parameter	Units	MS Spike		MSD Spike		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60106356001	Result	Conc.	Conc.								
Aluminum	ug/L	57.0	80	80	174	172	146	144	70-130	1	20	M6	
Antimony	ug/L	ND	80	80	78.6	76.6	98	96	70-130	3	20		
Arsenic	ug/L	ND	80	80	82.0	78.8	102	98	70-130	4	20		
Barium	ug/L	63.9	80	80	143	141	99	96	70-130	2	20		
Beryllium	ug/L	ND	80	80	82.1	79.1	103	99	70-130	4	20		
Cadmium	ug/L	ND	80	80	79.8	77.5	100	97	70-130	3	20		
Calcium	ug/L	39300	1000	1000	42100	41000	275	164	70-130	3	20	M6	
Chromium	ug/L	ND	80	80	80.8	77.9	101	97	70-130	4	20		
Copper	mg/L	0.00083	.08	.08	0.082	0.079	102	98	70-130	3	20		
Iron	ug/L	87.1	1000	1000	1130	1090	105	100	70-130	4	20		
Lead	ug/L	0.14	80	80	78.7	76.9	98	96	70-130	2	20		
Magnesium	ug/L	5850	1000	1000	6920	6730	107	88	70-130	3	20		
Manganese	ug/L	21.8	80	80	103	99.2	101	97	70-130	4	20		
Nickel	ug/L	ND	80	80	85.2	81.2	106	101	70-130	5	20		
Potassium	ug/L	667	1000	1000	1760	1720	109	105	70-130	2	20		
Selenium	ug/L	ND	80	80	84.7	84.0	105	104	70-130	.9	20		
Silver	ug/L	ND	80	80	72.9	71.2	91	89	70-130	2	20		
Sodium	ug/L	2210	1000	1000	3260	3210	105	100	70-130	2	20		
Thallium	ug/L	ND	80	80	79.5	77.4	99	97	70-130	3	20		
Total Hardness by 2340B	ug/L	122000			134000	130000				3	20		
Vanadium	ug/L	0.22	80	80	82.2	77.3	102	96	70-130	6	20		
Zinc	ug/L	ND	80	80	85.0	83.3	103	101	70-130	2	20		

MATRIX SPIKE SAMPLE: 1058666

Parameter	Units	60106356011	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L		ND	80	87.0	105	70-130
Antimony	ug/L		ND	80	77.7	97	70-130
Arsenic	ug/L		ND	80	80.6	101	70-130
Barium	ug/L		ND	80	77.7	97	70-130
Beryllium	ug/L		ND	80	78.5	98	70-130

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QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

MATRIX SPIKE SAMPLE: 1058666

Parameter	Units	60106356011		Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits		
Cadmium	ug/L	ND	80	77.8	97	70-130		
Calcium	ug/L	23.6	1000	1060	104	70-130		
Chromium	ug/L	ND	80	78.4	97	70-130		
Copper	mg/L	ND	.08	0.079	99	70-130		
Iron	ug/L	ND	1000	1010	100	70-130		
Lead	ug/L	ND	80	76.7	96	70-130		
Magnesium	ug/L	ND	1000	998	100	70-130		
Manganese	ug/L	ND	80	78.2	97	70-130		
Nickel	ug/L	ND	80	82.2	103	70-130		
Potassium	ug/L	ND	1000	1040	103	70-130		
Selenium	ug/L	ND	80	82.2	103	70-130		
Silver	ug/L	ND	80	71.5	89	70-130		
Sodium	ug/L	ND	1000	967	96	70-130		
Thallium	ug/L	ND	80	77.2	96	70-130		
Total Hardness by 2340B	ug/L	ND		6760				
Vanadium	ug/L	ND	80	78.8	98	70-130		
Zinc	ug/L	ND	80	79.6	99	70-130		

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	ICPM/28547	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013		

METHOD BLANK: 1058643 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014,
60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Aluminum, Dissolved	ug/L	ND	4.0	09/26/11 14:00	
Antimony, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Arsenic, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Barium, Dissolved	ug/L	ND	0.30	09/26/11 14:00	
Beryllium, Dissolved	ug/L	ND	0.20	09/26/11 14:00	
Cadmium, Dissolved	ug/L	ND	0.080	09/26/11 14:00	
Calcium, Dissolved	ug/L	ND	20.0	09/26/11 14:00	
Chromium, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Copper, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Iron, Dissolved	ug/L	ND	50.0	09/26/11 14:00	
Lead, Dissolved	ug/L	ND	0.10	09/26/11 14:00	
Magnesium, Dissolved	ug/L	ND	5.0	09/26/11 14:00	
Manganese, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Nickel, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Potassium, Dissolved	ug/L	ND	20.0	09/26/11 14:00	
Selenium, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Silver, Dissolved	ug/L	ND	0.50	09/26/11 14:00	
Sodium, Dissolved	ug/L	ND	50.0	09/26/11 14:00	
Thallium, Dissolved	ug/L	ND	0.10	09/26/11 14:00	
Vanadium, Dissolved	ug/L	ND	0.10	09/26/11 14:00	
Zinc, Dissolved	ug/L	ND	5.0	09/26/11 14:00	

LABORATORY CONTROL SAMPLE: 1058644

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Aluminum, Dissolved	ug/L	80	80.6	101	85-115	
Antimony, Dissolved	ug/L	80	81.2	102	85-115	
Arsenic, Dissolved	ug/L	80	80.4	101	85-115	
Barium, Dissolved	ug/L	80	80.2	100	85-115	
Beryllium, Dissolved	ug/L	80	80.5	101	85-115	
Cadmium, Dissolved	ug/L	80	80.3	100	85-115	
Calcium, Dissolved	ug/L	1000	1070	107	85-115	
Chromium, Dissolved	ug/L	80	82.2	103	85-115	
Copper, Dissolved	ug/L	80	83.1	104	85-115	
Iron, Dissolved	ug/L	1000	1020	102	85-115	
Lead, Dissolved	ug/L	80	80.3	100	85-115	
Magnesium, Dissolved	ug/L	1000	1070	107	85-115	
Manganese, Dissolved	ug/L	80	79.7	100	85-115	
Nickel, Dissolved	ug/L	80	81.9	102	85-115	

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QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

LABORATORY CONTROL SAMPLE: 1058644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	80	78.8	98	85-115	
Silver, Dissolved	ug/L	80	74.6	93	85-115	
Sodium, Dissolved	ug/L	1000	995	99	85-115	
Thallium, Dissolved	ug/L	80	80.8	101	85-115	
Vanadium, Dissolved	ug/L	80	80.0	100	85-115	
Zinc, Dissolved	ug/L	80	84.4	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1060339 1060340

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	Max	
		60106356002	Result	Conc.	Conc.						RPD	RPD
Aluminum, Dissolved	ug/L	8.4	80	80	63.2	75.4	69	84	70-130	18	20	M1
Antimony, Dissolved	ug/L	ND	80	80	78.2	80.8	98	101	70-130	3	20	
Arsenic, Dissolved	ug/L	ND	80	80	79.6	82.6	99	103	70-130	4	20	
Barium, Dissolved	ug/L	62.0	80	80	116	134	68	90	70-130	14	20	M1
Beryllium, Dissolved	ug/L	ND	80	80	71.2	80.4	89	100	70-130	12	20	
Cadmium, Dissolved	ug/L	ND	80	80	55.7	70.8	70	89	70-130	24	20	D6
Calcium, Dissolved	ug/L	47400	1000	1000	44700	46000	-272	-143	70-130	3	20	M1
Chromium, Dissolved	ug/L	ND	80	80	56.8	71.5	71	89	70-130	23	20	D6
Copper, Dissolved	ug/L	0.55	80	80	57.9	73.6	72	91	70-130	24	20	D6
Iron, Dissolved	ug/L	81.0	1000	1000	737	912	66	83	70-130	21	20	D6,M1
Lead, Dissolved	ug/L	ND	80	80	55.2	70.3	69	88	70-130	24	20	D6,M1
Magnesium, Dissolved	ug/L	6050	1000	1000	7020	7380	96	132	70-130	5	20	M1
Manganese, Dissolved	ug/L	70.9	80	80	128	142	71	89	70-130	11	20	
Nickel, Dissolved	ug/L	0.80	80	80	57.4	74.8	71	92	70-130	26	20	D6
Potassium, Dissolved	ug/L	726	1000	1000	1400	1610	67	88	70-130	14	20	M1
Selenium, Dissolved	ug/L	ND	80	80	56.8	70.8	70	88	70-130	22	20	D6
Silver, Dissolved	ug/L	ND	80	80	51.1	64.2	64	80	70-130	23	20	D6,M1
Sodium, Dissolved	ug/L	2570	1000	1000	3310	3480	74	91	70-130	5	20	
Thallium, Dissolved	ug/L	ND	80	80	56.2	70.9	70	89	70-130	23	20	D6
Vanadium, Dissolved	ug/L	0.12	80	80	56.0	71.6	70	89	70-130	24	20	D6
Zinc, Dissolved	ug/L	ND	80	80	63.0	76.0	74	90	70-130	19	20	

MATRIX SPIKE SAMPLE: 1060341

Parameter	Units	60106356012		Spike		MS Result	MS % Rec	% Rec Limits	Qualifiers	
		Result	Conc.	Conc.	Conc.				RPD	RPD
Aluminum, Dissolved	ug/L		4.8	80	81.6	96		70-130		
Antimony, Dissolved	ug/L		ND	80	73.8	92		70-130		
Arsenic, Dissolved	ug/L		ND	80	73.6	92		70-130		
Barium, Dissolved	ug/L		39.1	80	119	100		70-130		
Beryllium, Dissolved	ug/L		ND	80	79.0	99		70-130		
Cadmium, Dissolved	ug/L		0.092	80	80.5	101		70-130		
Calcium, Dissolved	ug/L		35400	1000	35000	-39		70-130	M1	
Chromium, Dissolved	ug/L		0.55	80	82.1	102		70-130		

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QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

MATRIX SPIKE SAMPLE:	1060341	60106356012		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result						
Copper, Dissolved	ug/L	2.6	80	85.2	103	70-130		
Iron, Dissolved	ug/L	ND	1000	1030	98	70-130		
Lead, Dissolved	ug/L	0.40	80	82.0	102	70-130		
Magnesium, Dissolved	ug/L	3840	1000	4930	109	70-130		
Manganese, Dissolved	ug/L	0.96	80	82.6	102	70-130		
Nickel, Dissolved	ug/L	0.69	80	81.6	101	70-130		
Potassium, Dissolved	ug/L	652	1000	1640	98	70-130		
Selenium, Dissolved	ug/L	ND	80	84.0	105	70-130		
Silver, Dissolved	ug/L	ND	80	73.0	91	70-130		
Sodium, Dissolved	ug/L	1640	1000	2680	104	70-130		
Thallium, Dissolved	ug/L	ND	80	82.2	103	70-130		
Vanadium, Dissolved	ug/L	ND	80	81.2	101	70-130		
Zinc, Dissolved	ug/L	ND	80	86.0	102	70-130		

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	MERC/6021	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 1059204 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014,
60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	ug/L	ND	0.20	09/29/11 08:43	

LABORATORY CONTROL SAMPLE: 1059205

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	ug/L	5	5.5	109	85-115	

MATRIX SPIKE SAMPLE: 1059208

Parameter	Units	60106356019	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec		
Mercury	ug/L	ND	5	4.0	81	85-115 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063340 1063341

Parameter	Units	60106356002	MS	MSD	MS	MS	MSD	% Rec	Max	Qual
		Result	Spike	Spike	Result	Result	% Rec	Limits	RPD	
Mercury	ug/L	ND	5	5	5.4	6.0	108	119	85-115	10 30 M1

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	MERC/6018	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 1059187 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014,
60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury, Dissolved	ug/L	ND	0.20	09/29/11 09:49	

LABORATORY CONTROL SAMPLE: 1059188

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury, Dissolved	ug/L	5	5.6	113	85-115	

MATRIX SPIKE SAMPLE: 1059191

Parameter	Units	60106356019	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec		
Mercury, Dissolved	ug/L	ND	5	6.5	130	85-115	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063338 1063339

Parameter	Units	60106356003	MS	MSD	MS	% Rec	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike									
Mercury, Dissolved	ug/L	ND	5	5	6.1	4.7	122	94	85-115	26	20	D6,M1	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	MT/7145	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 1062340 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356012, 60106356013, 60106356014, 60106356015,
60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/28/11 11:39	

LABORATORY CONTROL SAMPLE: 1062341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	975	98	90-110	

SAMPLE DUPLICATE: 1062342

Parameter	Units	60106356001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	222	236	6	20	

SAMPLE DUPLICATE: 1062343

Parameter	Units	60106356018 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	2030	2120	4	20	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	MT/7179	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60106356011		

METHOD BLANK: 1064635 Matrix: Water

Associated Lab Samples: 60106356011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	09/29/11 16:32	

LABORATORY CONTROL SAMPLE: 1064636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	978	98	90-110	

SAMPLE DUPLICATE: 1064637

Parameter	Units	60106356011 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	3040	2820	8	20	

SAMPLE DUPLICATE: 1064638

Parameter	Units	10170299012 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	4280	4400	3	20	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31210	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60106356012, 60106356013, 60106356014, 60106356015		

METHOD BLANK: 882649 Matrix: Water

Associated Lab Samples: 60106356012, 60106356013, 60106356014, 60106356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	09/28/11 18:00	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	09/28/11 18:00	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	09/28/11 18:00	

LABORATORY CONTROL SAMPLE: 882650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	500	510	102	90-110	

SAMPLE DUPLICATE: 882651

Parameter	Units	60106874003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L		ND			
Alkalinity, Total as CaCO ₃	mg/L	414	414	0	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L		414			

SAMPLE DUPLICATE: 882652

Parameter	Units	60106875006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	18.0J	16J		9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	18.0J	16J		9	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31237	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 883216 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007,
60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018,
60106356019

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	09/29/11 14:00	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	09/29/11 14:00	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	09/29/11 14:00	

LABORATORY CONTROL SAMPLE: 883217

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Alkalinity, Total as CaCO ₃	mg/L	500	512	102	90-110	

SAMPLE DUPLICATE: 883218

Parameter	Units	60106356001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	90.0	88.0	2	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	90.0	88.0	2	9	

SAMPLE DUPLICATE: 883219

Parameter	Units	60106356002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		24	
Alkalinity, Total as CaCO ₃	mg/L	88.0	86.0	2	9	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	88.0	86.0	2	9	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31070	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60106356012, 60106356013, 60106356014, 60106356015		

METHOD BLANK:	878502	Matrix:	Water
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Associated Lab Samples: 60106356012, 60106356013, 60106356014, 60106356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/21/11 11:16	

SAMPLE DUPLICATE: 878504

Parameter	Units	60106177002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	672	656	2	17	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31091	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007		

METHOD BLANK: 879131 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/22/11 13:52	

SAMPLE DUPLICATE: 879132

Parameter	Units	60106298001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	295	14	17	

SAMPLE DUPLICATE: 879133

Parameter	Units	60106261008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48500	39400	21	17	R1

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31093	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids

Associated Lab Samples: 60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018,
60106356019

METHOD BLANK: 879136 Matrix: Water

Associated Lab Samples: 60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018,
60106356019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/22/11 13:58	

SAMPLE DUPLICATE: 879137

Parameter	Units	60106356008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	884	876	1	17	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31069	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60106356012, 60106356013, 60106356014, 60106356015		

METHOD BLANK: 878492 Matrix: Water

Associated Lab Samples: 60106356012, 60106356013, 60106356014, 60106356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/21/11 10:40	

SAMPLE DUPLICATE: 878493

Parameter	Units	60106278005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	10.0	10	0	25	

SAMPLE DUPLICATE: 878494

Parameter	Units	60106316003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.0	12.0	45	25	R1

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31096	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005		

METHOD BLANK: 879179 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/22/11 11:17	

SAMPLE DUPLICATE: 879180

Parameter	Units	60106261008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	885	580	42	25	R1

SAMPLE DUPLICATE: 879181

Parameter	Units	60106280003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	30.7	29.3	4	25	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WET/31097	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK:	879182	Matrix:	Water
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Associated Lab Samples:	60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356016, 60106356017, 60106356018, 60106356019		
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	09/22/11 11:27	

SAMPLE DUPLICATE: 879183

Parameter	Units	60106356006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	5.0		25	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch: WET/31017 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60106356019

SAMPLE DUPLICATE: 877139

Parameter	Units	60106315002	Dup Result	RPD	Max RPD	Qualifiers
	Std. Units	Result				
pH at 25 Degrees C		8.6	8.6	0	5	H6

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WETA/17716	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 882439 Matrix: Water

Associated Lab Samples: 60106356003, 60106356004, 60106356005, 60106356006, 60106356008, 60106356009, 60106356011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/28/11 23:54	

METHOD BLANK: 884208 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356007, 60106356010, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/29/11 17:02	

LABORATORY CONTROL SAMPLE: 882440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	104	90-110	

LABORATORY CONTROL SAMPLE: 884209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 882441 882442

Parameter	Units	MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result	MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Sulfate	mg/L	546	250	250	826	831	112	114	61-119	1	10	

MATRIX SPIKE SAMPLE: 882443

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	80.0	25	107	109	61-119	

QUALITY CONTROL DATA

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

QC Batch:	WETA/17711	Analysis Method:	SM 4500-CN-E
QC Batch Method:	SM 4500-CN-E	Analysis Description:	4500CNE Cyanide, Total
Associated Lab Samples:	60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019		

METHOD BLANK: 882374 Matrix: Water

Associated Lab Samples: 60106356001, 60106356002, 60106356003, 60106356004, 60106356005, 60106356006, 60106356007, 60106356008, 60106356009, 60106356010, 60106356011, 60106356012, 60106356013, 60106356014, 60106356015, 60106356016, 60106356017, 60106356018, 60106356019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	09/28/11 16:17	

LABORATORY CONTROL SAMPLE: 882375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.097	97	69-126	

MATRIX SPIKE SAMPLE: 882376

Parameter	Units	60106356001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.12	115	41-136	

SAMPLE DUPLICATE: 882377

Parameter	Units	60106356002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

QUALIFIERS

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated more than 15 minutes after sample collection.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106356001	DR-1	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356002	DR-2	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356003	DR-3	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356004	DR-4	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356005	DR-5	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356006	DR-6	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356007	DR-7	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356008	DR-8	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356009	DR-4-SW	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356010	DR-G	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356011	FB	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356012	GW-1	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356013	GW-3	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356014	GW-4	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356015	GW-5	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356016	GW-6	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356017	GW-7	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356018	EB-1	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356019	EB-2	EPA 200.8	ICPM/28549	EPA 200.8	ICPM/11524
60106356001	DR-1	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356002	DR-2	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356003	DR-3	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356004	DR-4	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356005	DR-5	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356006	DR-6	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356007	DR-7	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356008	DR-8	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356009	DR-4-SW	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356010	DR-G	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356011	FB	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356012	GW-1	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356013	GW-3	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356014	GW-4	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356015	GW-5	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356016	GW-6	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356017	GW-7	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356018	EB-1	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356019	EB-2	EPA 200.8	ICPM/28547	EPA 200.8	ICPM/11520
60106356001	DR-1	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356002	DR-2	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356003	DR-3	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356004	DR-4	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356005	DR-5	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356006	DR-6	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356007	DR-7	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356008	DR-8	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356009	DR-4-SW	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356010	DR-G	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106356011	FB	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356012	GW-1	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356013	GW-3	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356014	GW-4	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356015	GW-5	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356016	GW-6	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356017	GW-7	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356018	EB-1	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356019	EB-2	EPA 245.1	MERC/6021	EPA 245.1	MERC/6835
60106356001	DR-1	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356002	DR-2	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356003	DR-3	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356004	DR-4	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356005	DR-5	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356006	DR-6	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356007	DR-7	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356008	DR-8	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356009	DR-4-SW	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356010	DR-G	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356011	FB	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356012	GW-1	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356013	GW-3	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356014	GW-4	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356015	GW-5	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356016	GW-6	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356017	GW-7	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356018	EB-1	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356019	EB-2	EPA 245.1	MERC/6018	EPA 245.1	MERC/6836
60106356001	DR-1	SM 2510B	MT/7145		
60106356002	DR-2	SM 2510B	MT/7145		
60106356003	DR-3	SM 2510B	MT/7145		
60106356004	DR-4	SM 2510B	MT/7145		
60106356005	DR-5	SM 2510B	MT/7145		
60106356006	DR-6	SM 2510B	MT/7145		
60106356007	DR-7	SM 2510B	MT/7145		
60106356008	DR-8	SM 2510B	MT/7145		
60106356009	DR-4-SW	SM 2510B	MT/7145		
60106356010	DR-G	SM 2510B	MT/7145		
60106356011	FB	SM 2510B	MT/7179		
60106356012	GW-1	SM 2510B	MT/7145		
60106356013	GW-3	SM 2510B	MT/7145		
60106356014	GW-4	SM 2510B	MT/7145		
60106356015	GW-5	SM 2510B	MT/7145		
60106356016	GW-6	SM 2510B	MT/7145		
60106356017	GW-7	SM 2510B	MT/7145		
60106356018	EB-1	SM 2510B	MT/7145		
60106356019	EB-2	SM 2510B	MT/7145		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO WATER SAMPLING SEPT. 2011

Pace Project No.: 60106356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106356001	DR-1	Calculated	MT/7163		
60106356002	DR-2	Calculated	MT/7163		
60106356003	DR-3	Calculated	MT/7163		
60106356004	DR-4	Calculated	MT/7163		
60106356005	DR-5	Calculated	MT/7163		
60106356006	DR-6	Calculated	MT/7163		
60106356007	DR-7	Calculated	MT/7163		
60106356008	DR-8	Calculated	MT/7163		
60106356009	DR-4-SW	Calculated	MT/7163		
60106356010	DR-G	Calculated	MT/7163		
60106356011	FB	Calculated	MT/7186		
60106356012	GW-1	Calculated	MT/7163		
60106356013	GW-3	Calculated	MT/7163		
60106356014	GW-4	Calculated	MT/7163		
60106356015	GW-5	Calculated	MT/7163		
60106356016	GW-6	Calculated	MT/7163		
60106356017	GW-7	Calculated	MT/7163		
60106356018	EB-1	Calculated	MT/7163		
60106356019	EB-2	Calculated	MT/7163		
60106356001	DR-1	SM 2320B	WET/31237		
60106356002	DR-2	SM 2320B	WET/31237		
60106356003	DR-3	SM 2320B	WET/31237		
60106356004	DR-4	SM 2320B	WET/31237		
60106356005	DR-5	SM 2320B	WET/31237		
60106356006	DR-6	SM 2320B	WET/31237		
60106356007	DR-7	SM 2320B	WET/31237		
60106356008	DR-8	SM 2320B	WET/31237		
60106356009	DR-4-SW	SM 2320B	WET/31237		
60106356010	DR-G	SM 2320B	WET/31237		
60106356011	FB	SM 2320B	WET/31237		
60106356012	GW-1	SM 2320B	WET/31210		
60106356013	GW-3	SM 2320B	WET/31210		
60106356014	GW-4	SM 2320B	WET/31210		
60106356015	GW-5	SM 2320B	WET/31210		
60106356016	GW-6	SM 2320B	WET/31237		
60106356017	GW-7	SM 2320B	WET/31237		
60106356018	EB-1	SM 2320B	WET/31237		
60106356019	EB-2	SM 2320B	WET/31237		
60106356001	DR-1	SM 2540C	WET/31091		
60106356002	DR-2	SM 2540C	WET/31091		
60106356003	DR-3	SM 2540C	WET/31091		
60106356004	DR-4	SM 2540C	WET/31091		
60106356005	DR-5	SM 2540C	WET/31091		
60106356006	DR-6	SM 2540C	WET/31091		
60106356007	DR-7	SM 2540C	WET/31091		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RICO WATER SAMPLING SEPT. 2011
Pace Project No.: 60106356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106356008	DR-8	SM 2540C	WET/31093		
60106356009	DR-4-SW	SM 2540C	WET/31093		
60106356010	DR-G	SM 2540C	WET/31093		
60106356011	FB	SM 2540C	WET/31093		
60106356012	GW-1	SM 2540C	WET/31070		
60106356013	GW-3	SM 2540C	WET/31070		
60106356014	GW-4	SM 2540C	WET/31070		
60106356015	GW-5	SM 2540C	WET/31070		
60106356016	GW-6	SM 2540C	WET/31093		
60106356017	GW-7	SM 2540C	WET/31093		
60106356018	EB-1	SM 2540C	WET/31093		
60106356019	EB-2	SM 2540C	WET/31093		
60106356001	DR-1	SM 2540D	WET/31096		
60106356002	DR-2	SM 2540D	WET/31096		
60106356003	DR-3	SM 2540D	WET/31096		
60106356004	DR-4	SM 2540D	WET/31096		
60106356005	DR-5	SM 2540D	WET/31096		
60106356006	DR-6	SM 2540D	WET/31097		
60106356007	DR-7	SM 2540D	WET/31097		
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60106356009	DR-4-SW	SM 2540D	WET/31097		
60106356010	DR-G	SM 2540D	WET/31097		
60106356011	FB	SM 2540D	WET/31097		
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60106356017	GW-7	SM 2540D	WET/31097		
60106356018	EB-1	SM 2540D	WET/31097		
60106356019	EB-2	SM 2540D	WET/31097		
60106356019	EB-2	SM 4500-H+B	WET/31017		
60106356001	DR-1	EPA 300.0	WETA/17716		
60106356002	DR-2	EPA 300.0	WETA/17716		
60106356003	DR-3	EPA 300.0	WETA/17716		
60106356004	DR-4	EPA 300.0	WETA/17716		
60106356005	DR-5	EPA 300.0	WETA/17716		
60106356006	DR-6	EPA 300.0	WETA/17716		
60106356007	DR-7	EPA 300.0	WETA/17716		
60106356008	DR-8	EPA 300.0	WETA/17716		
60106356009	DR-4-SW	EPA 300.0	WETA/17716		
60106356010	DR-G	EPA 300.0	WETA/17716		
60106356011	FB	EPA 300.0	WETA/17716		
60106356012	GW-1	EPA 300.0	WETA/17716		
60106356013	GW-3	EPA 300.0	WETA/17716		

Date: 10/03/2011 09:11 AM

REPORT OF LABORATORY ANALYSIS

Page 73 of 74

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

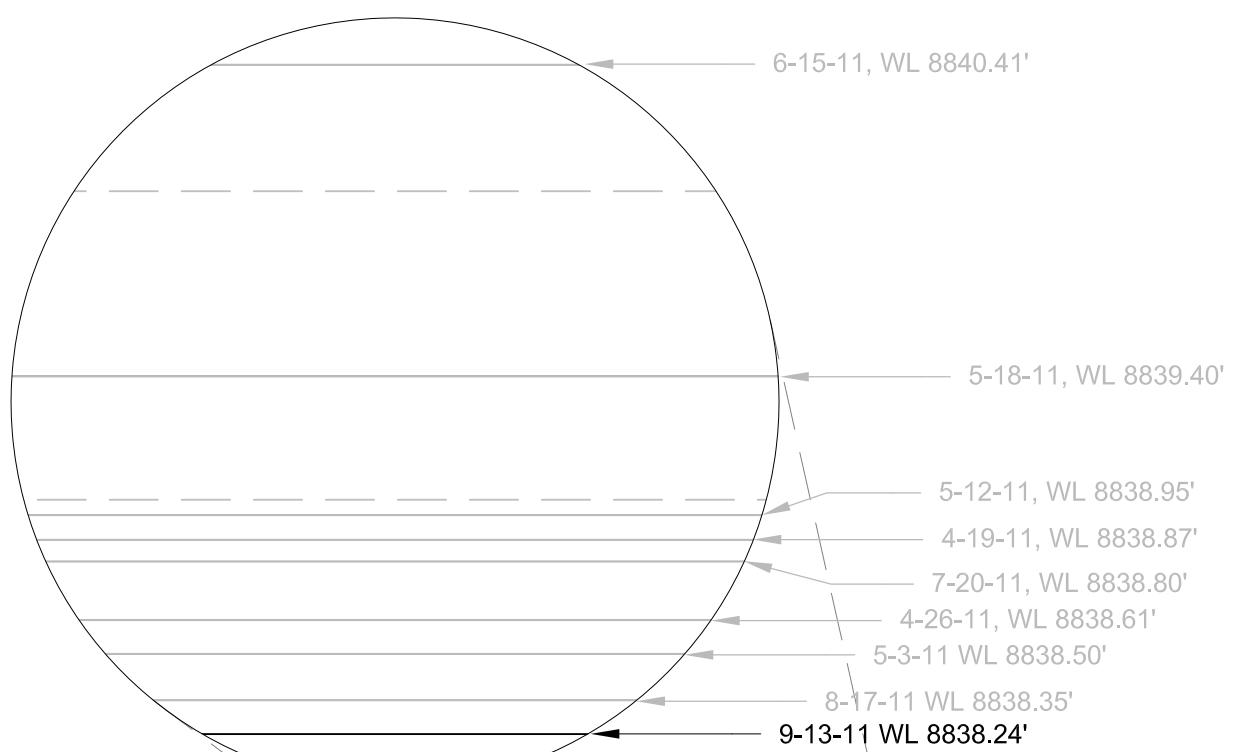
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Pace Project No.: 60106356

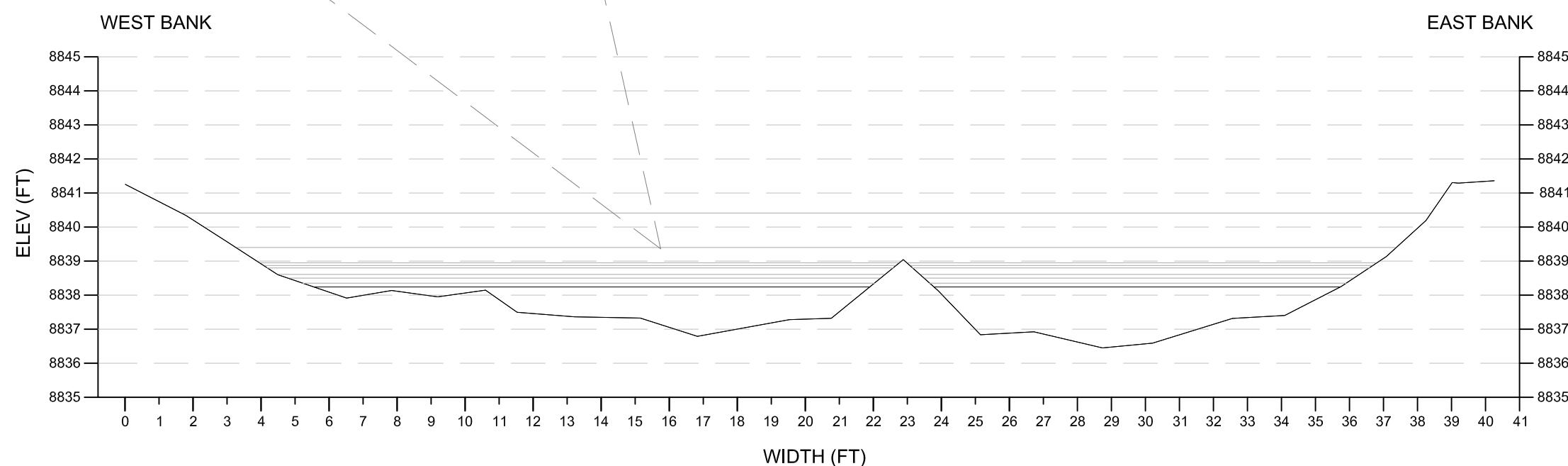
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60106356017	GW-7	EPA 300.0	WETA/17716		
60106356018	EB-1	EPA 300.0	WETA/17716		
60106356019	EB-2	EPA 300.0	WETA/17716		
60106356001	DR-1	SM 4500-CN-E	WETA/17711		
60106356002	DR-2	SM 4500-CN-E	WETA/17711		
60106356003	DR-3	SM 4500-CN-E	WETA/17711		
60106356004	DR-4	SM 4500-CN-E	WETA/17711		
60106356005	DR-5	SM 4500-CN-E	WETA/17711		
60106356006	DR-6	SM 4500-CN-E	WETA/17711		
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60106356016	GW-6	SM 4500-CN-E	WETA/17711		
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60106356018	EB-1	SM 4500-CN-E	WETA/17711		
60106356019	EB-2	SM 4500-CN-E	WETA/17711		

Appendix E

Flow Cross Sections



DR-1 CROSS SECTION



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General Notes		
Scale in Feet		
0	2	4
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

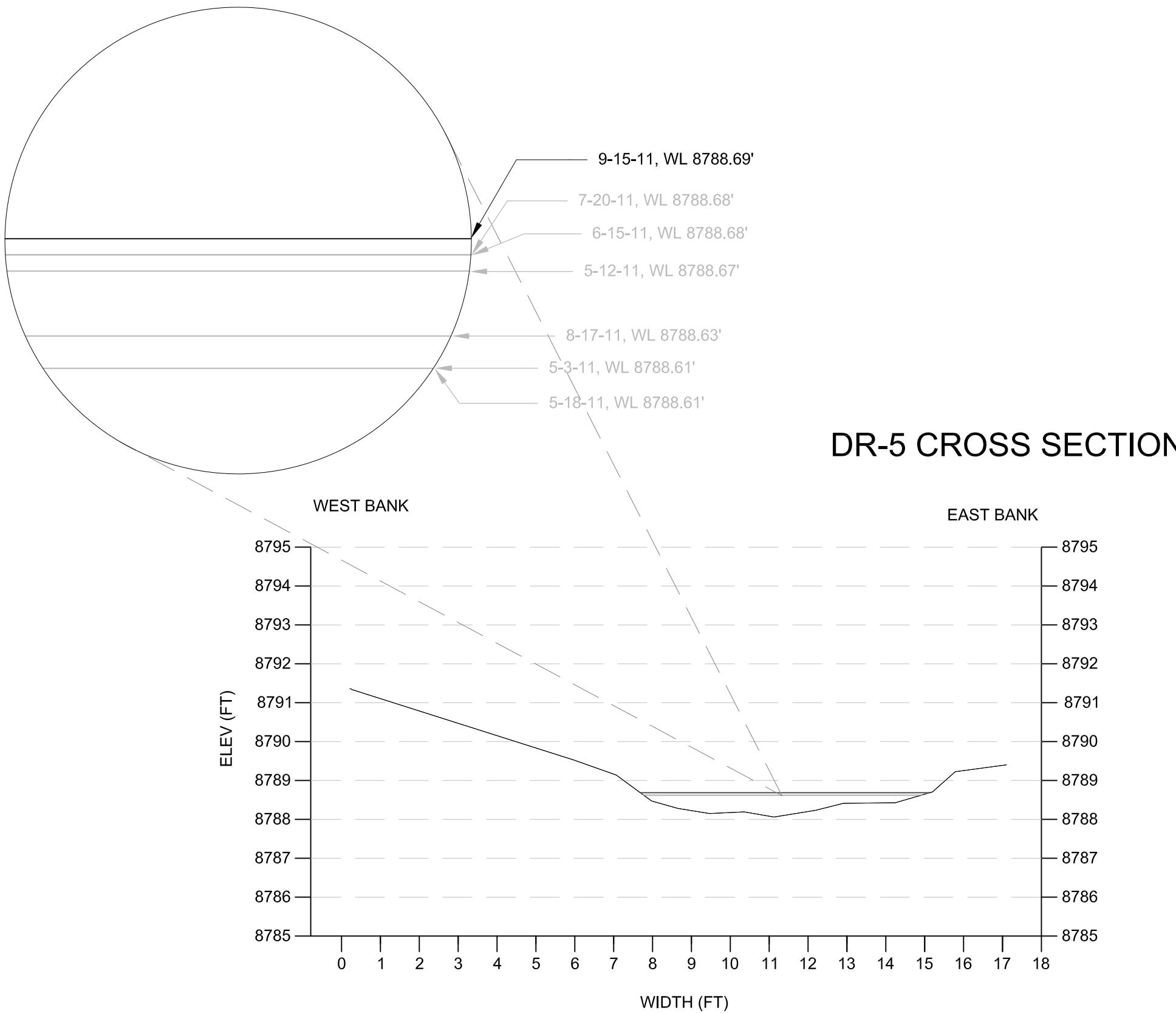
**RICO SURFACE
WATER SAMPLING**

**DOLORES RIVER CROSS
SECTION AT SAMPLING
STATION DR-1**

RICO, CO

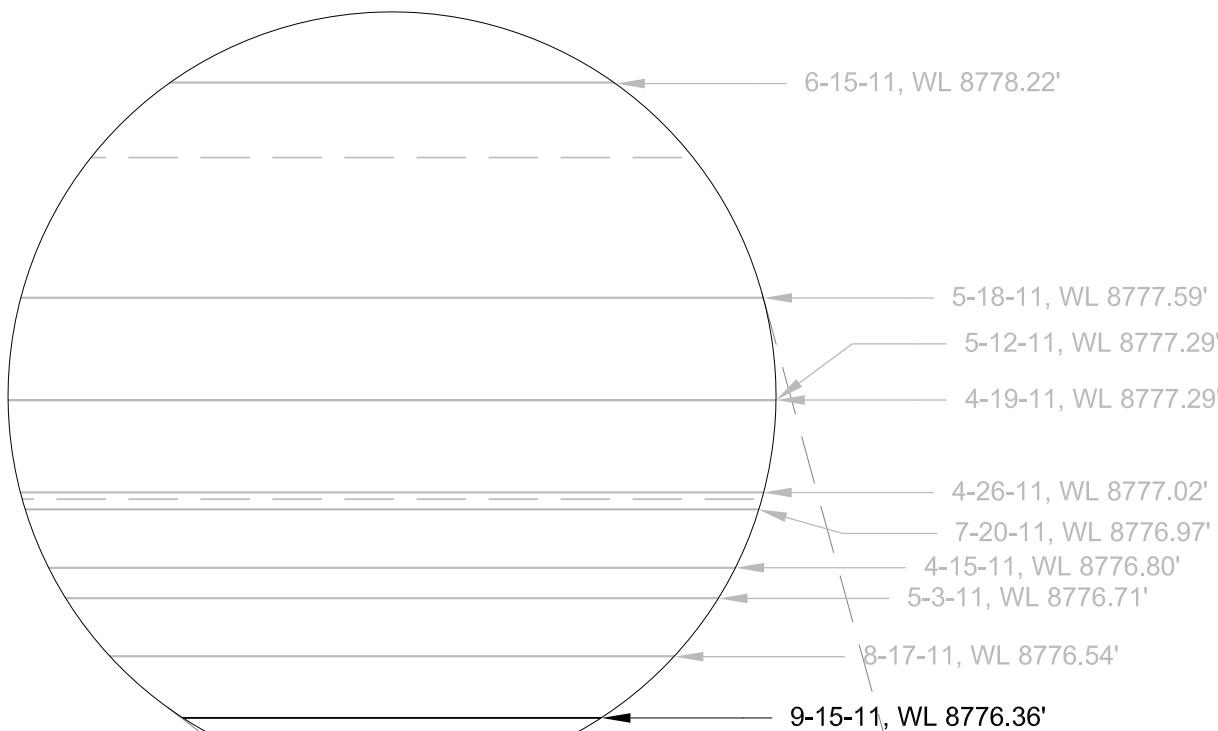
Project	Figure
Date	13-SEP-2011
Scale	

3



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General Notes											
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No.	Revision/Issue	Date									
ATLANTIC RICHFIELD COMPANY											
 ANDERSON ENGINEERING COMPANY, INC.											
DRAWN BY: MAD ENGINEER: CS, MAD APPROVED:											
RICO SURFACE WATER SAMPLING POND 8 EMBANKMENT CROSS SECTION AT SAMPLING STATION DR-5 RICO, CO											
Project: _____ Date: 15-SEP-2011 Scale: _____		Figure: 4									



General Notes

Scale in Feet
0 3 6

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

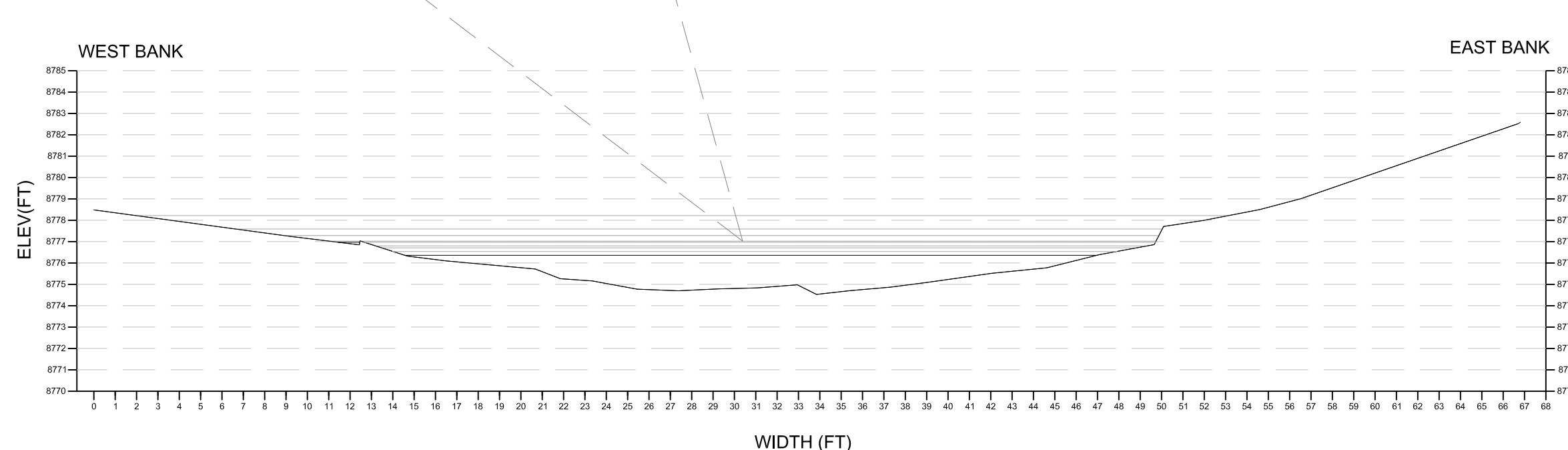
RICO SURFACE WATER SAMPLING

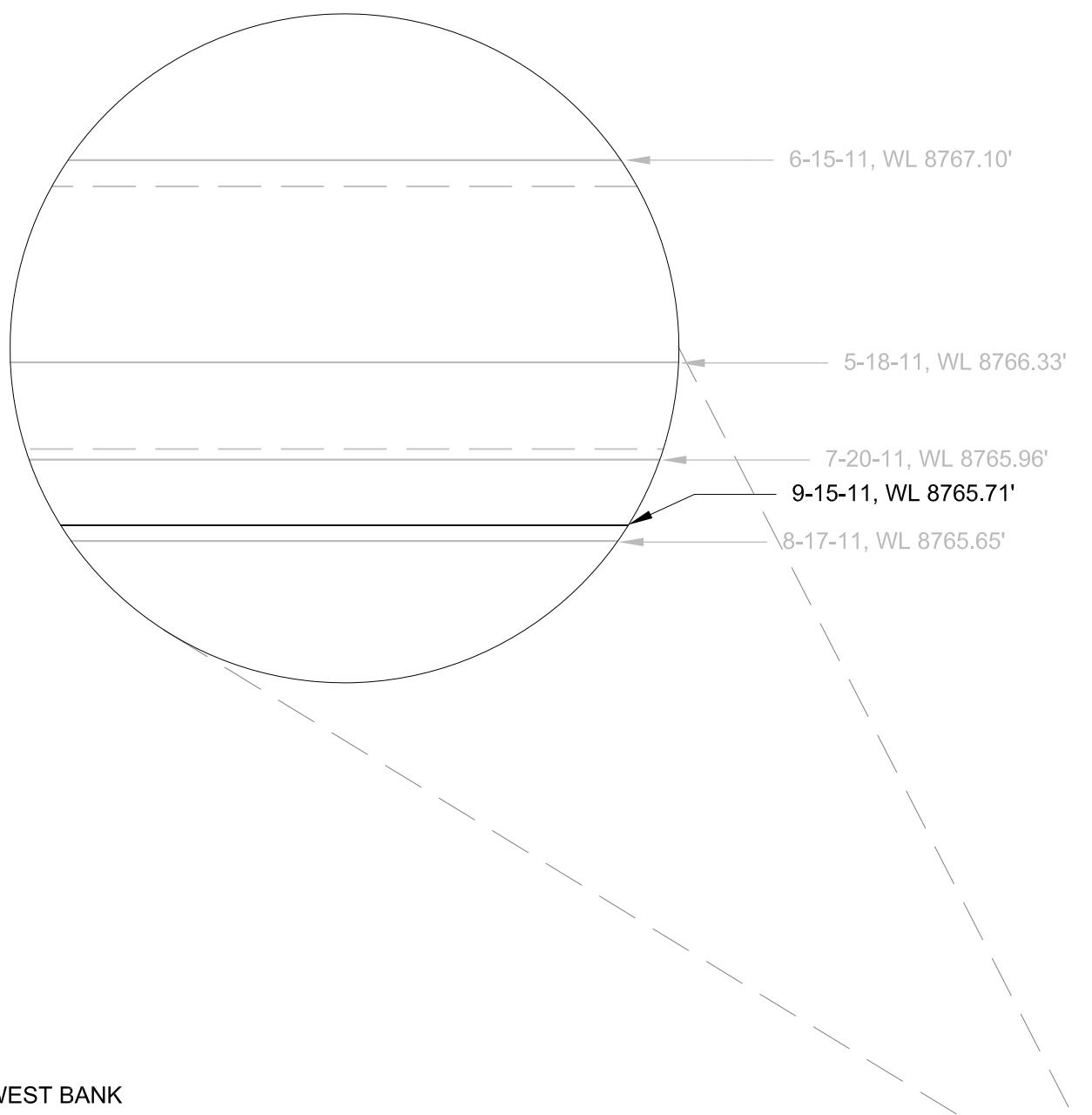
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

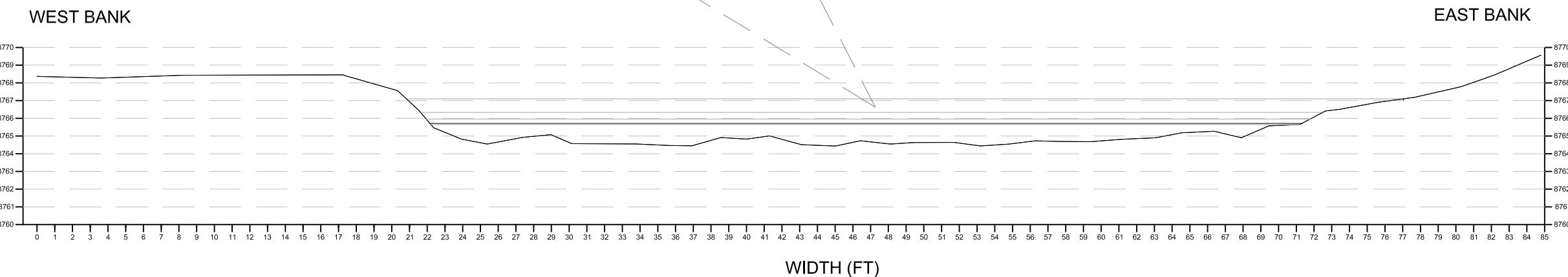
Project	Figure
Date 15-SEP-2011	
Scale	

5





DR-7 CROSS SECTION



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General Notes		
Scale in Feet		
0	3.5	7
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

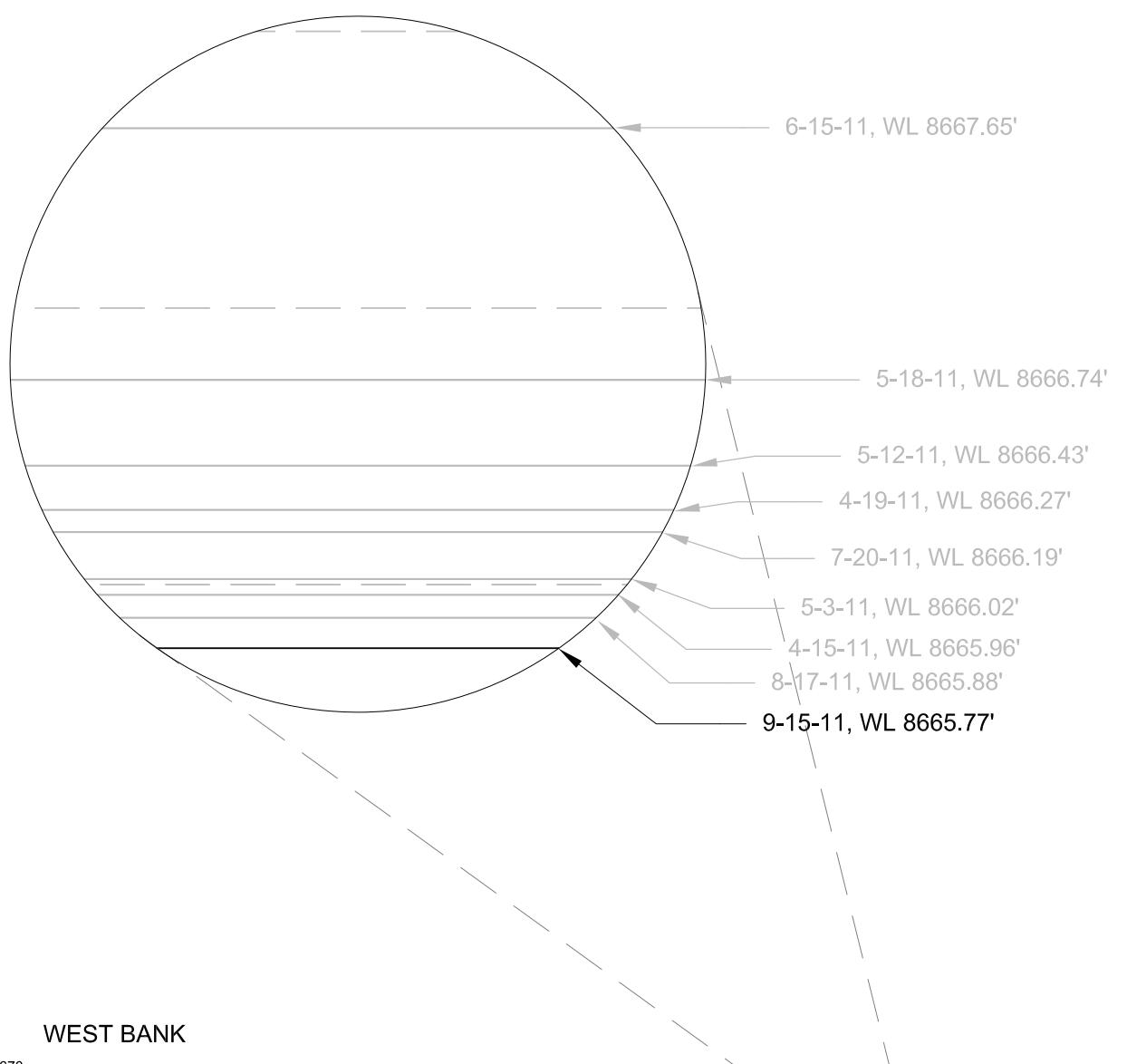
**RICO SURFACE
WATER SAMPLING**

**DOLORES RIVER CROSS
SECTION AT SAMPLING
STATION DR-7**

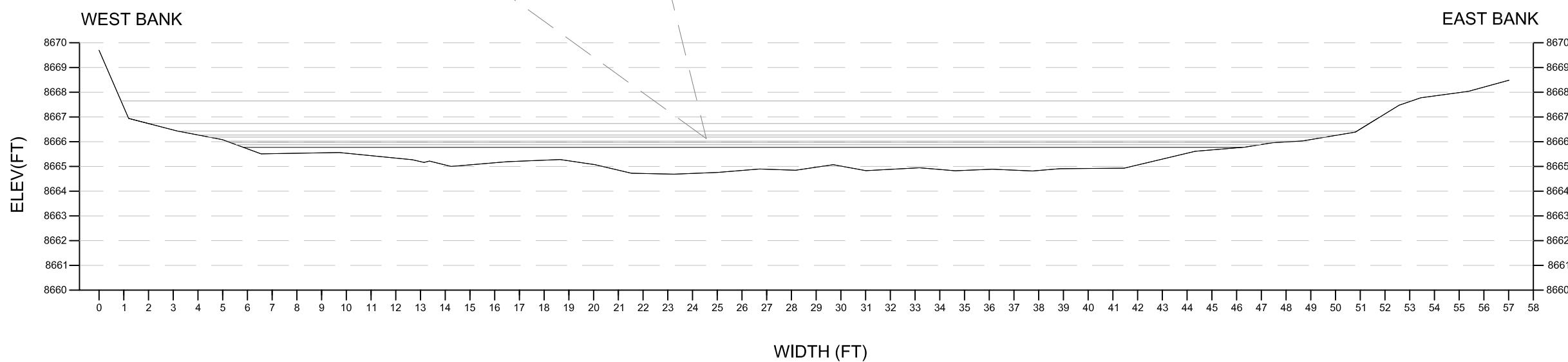
RICO, CO

Project	Figure
Date	15-SEP-2011
Scale	

6



DR-4-SW CROSS SECTION



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General Notes		
Scale in Feet		
0 2.5 5		
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

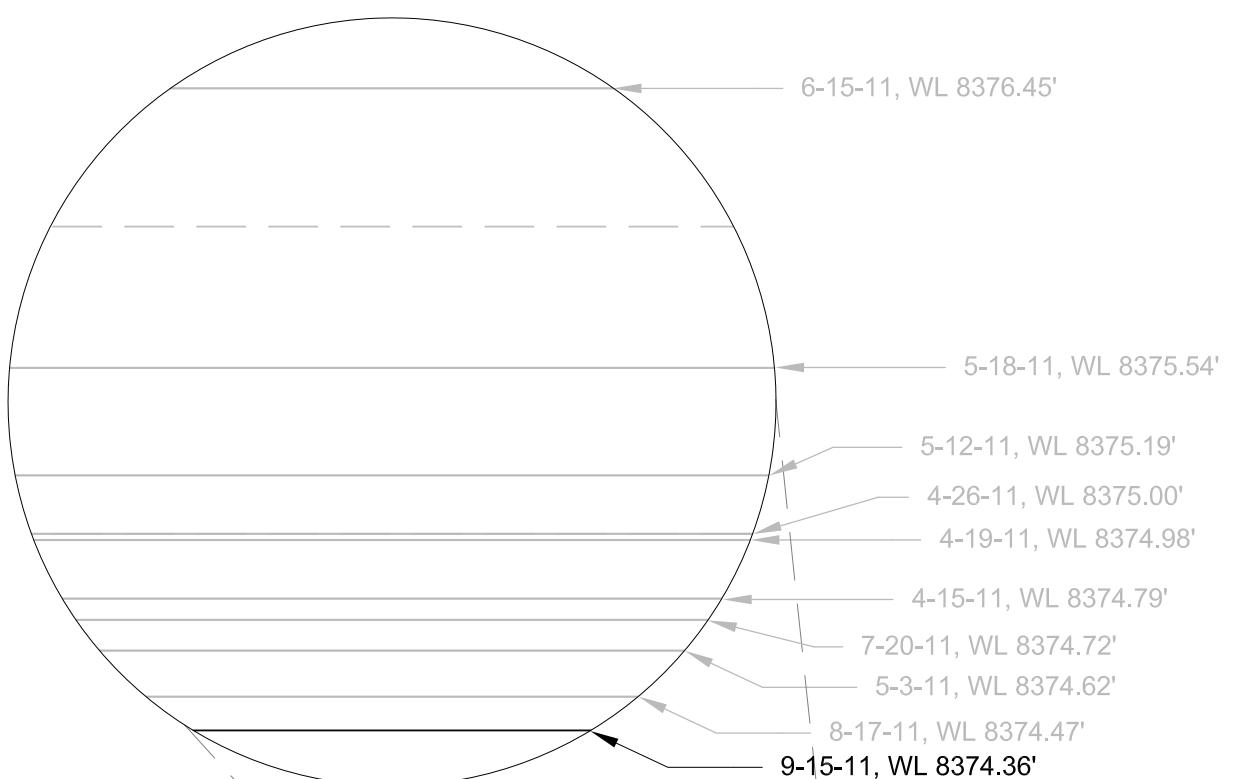
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

**RICO SURFACE
WATER SAMPLING**

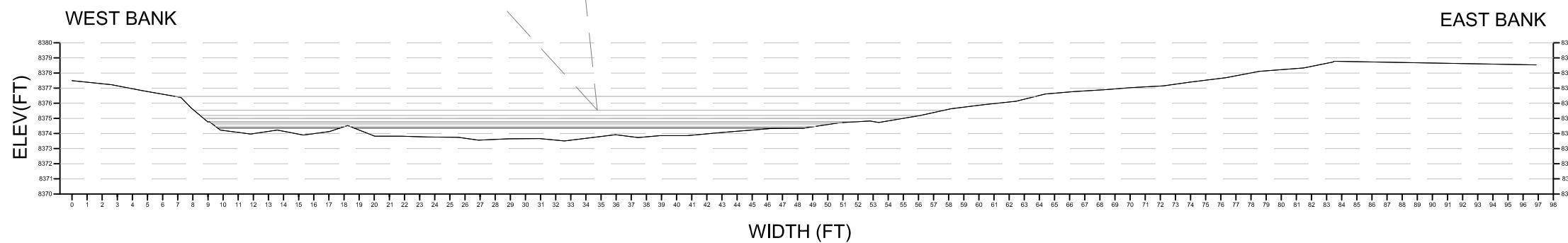
**DOLORES RIVER CROSS
SECTION AT SAMPLING
STATION DR-4-SW**

RICO, CO

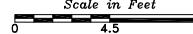
Project	Figure
Date	15-SEP-2011
Scale	



DR-G CROSS SECTION



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General Notes		
<p style="text-align: center;"><i>Scale in Feet</i></p> 		
No.	Revision/Issue	Date

ATLANTIC RICHFIELD
COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-G

RICO CO

Project	Figure
Date	15-SEP-2011
Scale	

Appendix F
Chain of Custody Records



bp
A BP affiliated company

185280

Page 1 of 2

Chain of Custody Record

Project Name: Pico Water Sampling Sept. 2011

BP BU/AR Region/Enfos Segment:

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Pace Analytical</u>	BP/AR Facility No.:	Consultant/Contractor:
Address: <u>9608 Loiret Blvd</u>	BP/AR Facility Address:	Address:
<u>Lenexa, KS 66219</u>	Site Lat/Long:	
Lab PM: <u>Colleen Koporc</u>	California Global ID No.:	Consultant/Contractor Project No.:
Tele/Fax:	Enfos Project No.:	Consultant/Contractor PM:
BP/AR EBM:	Provision or OOC (circle one)	Tele/Fax:
Address:	Phase/WBS:	Report Type & QC Level:
Tele/Fax:	Sub Phase/Task:	E-mail EDD To:
	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments <i>Coastal 6356</i>		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	NaOH	Total Metals <i>Chromium, Diss. metals</i>	Diss. metals	TDS <i>TSS, sulfate</i>	Cyanide	Salinity	pH	
1	DR-1		9/15/11	x	1BPBU	1BP2U		5	x		x			x	1BP3C	12.5	2BP1U1.5			on	
2	DR-2		9/15/11	x				5	x		x			x							on
3	DR-3		9/15/11	x				5	x		x			x							03
4	DR-4		9/15/11	x				5	x		x			x							04
5	DR-5		9/15/11	x				5	x		x			x							05
6	DR-6		9/15/11	x				5	x		x			x							06
7	DR-7		9/15/11	x				5	x		x			x							07
8	DR-8		9/15/11	x				5	x		x			x							08
9	DR-4-Sw		9/15/11	x				5	x		x			x							09
10	DR-G		9/15/11	x				5	y		x			x		v			v		010

Sampler's Name: <u>Mark DeFrice</u>	Relinquished By / Affiliation			Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Anderson Engineering Co., Inc.</u>						<u>Pheng Vang</u>	<u>9-17-11</u>	<u>0800</u>
Shipment Date: <u>9/16/11</u>								
Shipment Method:								
Shipment Tracking No:								

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 0.1 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory Copy 2-312-7108



bp
A BP affiliated company

185281

Page 2 of 2

Chain of Custody Record

Project Name: Rico Water Sampling Sept 2011
 BP BU/AR Region/Envos Segment:
 State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy):

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Pace Analytical</u>	BP/AR Facility No.:	Consultant/Contractor:
Address: <u>4608 Lainet Blvd</u>	BP/AR Facility Address:	Address:
<u>Lenexa, KS 66219</u>	Site Lat/Long:	
Lab PM: <u>Colleen Kopors</u>	California Global ID No.:	Consultant/Contractor Project No.:
Tele/Fax:	Envos Project No.:	Consultant/Contractor PM:
BP/AR EBM:	Provision or OOC (circle one)	Tele/Fax:
Address:	Phase/WBS:	Report Type & QC Level:
Tele/Fax:	Sub Phase/Task:	E-mail EDD To:
	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments <i>60106356</i>
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	NH ₄ OH	Total Metals/ Barcarides Dissolved Metals	Tide, TDS, TSS Surface	Cyanide	Salinity	pH
1	FB		9/19/11	X	1BP	3U 1BP2U	5	X		X			X	X	X X	X	1B13C 12.5	2BP3 N 1.5	011
2	GW-1		9/14/11	X				5	X	X			X	X	X X	X X			012
3	GW-3		9/14/11	X				5	X	X			X	X	X X	X X			013
4	GW-4		9/14/11	X				5	X	X			X	X	X X	X X			014
5	GW-5		9/14/11	X				5	X	X			X	X	X X	X X			015
6	GW-6		9/15/11	X				5	X	X			X	X	X X	X X			016
7	GW-7		9/15/11	X				5	X	X			✓	X	X X	X X			017
8	EB-1		9/15/11	X				5	X	X			X	X	X X	X X			018
9	EB-2		9/15/11	X				5	X	X			X	X	X X	X X	✓		019
10																			

Sampler's Name: <u>Mark DeFriez</u>	Relinquished By / Affiliation	Date	Date	Accepted By / Affiliation	Date
Sampler's Company: <u>Anderson Engineering Co. Inc</u>				<u>Henry Wang</u>	<u>G-17-15800</u>
Shipment Date: <u>9/16/11</u>					
Shipment Method:					
Shipment Tracking No:					

Special Instructions:

185281
 Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 0.1 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Laboratory Copy 2-3/27/08

Sample Condition Upon Receipt – ESI Tech Specs
Client Name: BP Anderson
Project #: 60106356
795758948312/875631726200/795758948323
Courier: Fed Ex UPS USPS Client Commercial Pace Other

Optional
Proj Due Date: <u>9/29/11</u>
Proj Name:

Tracking #: 795758948334 **Pace Shipping Label Used?** Yes No
Custody Seal on Cooler/Box Present: Yes No **Seals intact:** Yes No
Packing Material: Bubble Wrap Bubble Bags Foam None Other ZP1C
Thermometer Used: T-191 / T-194
Type of Ice: Wet Blue None **Samples received on ice, cooling process has begun.**
Cooler Temperature: 0.1/2.3/2.7/0.8 (circle one)

Date and initials of person examining contents: PLG-17-11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace containers used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>NY</u>

Client Notification/ Resolution:

Copy COC to Client?

 Y N

Field Data Required? Y N

Person Contacted: _____

Date/Time: _____

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Comments/ Resolution: _____

Start: 10:50 Start:

End: 11:10 End:

Temp: Temp:

Project Manager Review: CBK

Date: 9/10/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Appendix G

Field Photos

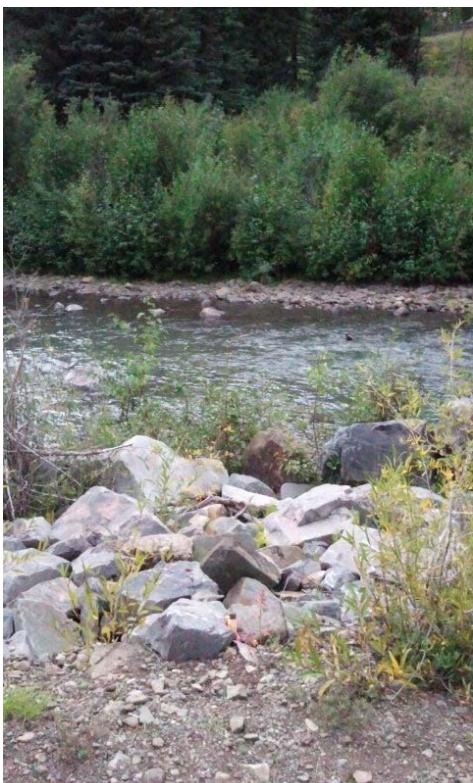
September 2011 Field Photos



Cross Section at Station DR-1



Cross Section at Station DR-5

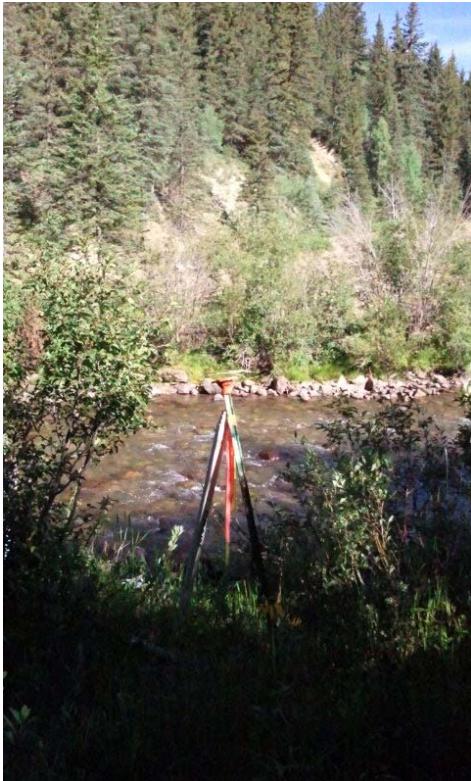


Cross Section at Station DR-2



Cross Section at Station DR-7

September 2011 Field Photos



Cross Section at Station DR-4-SW



Cross Section at Station DR-G

Appendix H
Field Log Book Records

9/13/11 - Sept Water Sampling

DR-1

pH 8.49 EC 154.5 μS

DO 1.26 ppm T 11.6

East → west

Velocities: $2\frac{1}{2}$, $2\frac{1}{2}$, $2\frac{3}{4}$, $2\frac{4}{5}$, $3\frac{2}{3}$, $3\frac{1}{2}$,
 $1\frac{5}{6}$, $3\frac{1}{2}$, $3\frac{2}{3}$, $\frac{1}{2}1\frac{1}{2}$, $2\frac{1}{2}$, $1\frac{1}{2}$, $0\frac{5}{6}$, $0\frac{4}{5}$,
 $0\frac{3}{4}$

BM EL 5.51

WL EL 8.63

Sample collected: 3:15 pm
on 9/14/11

photo # 1

9/15/11

DR-1A

BM EL 5.32

WL EL 7.89

Velocities $0\frac{8}{9}$, $1\frac{2}{3}$, $1\frac{1}{2}$, $3\frac{1}{2}$, $3\frac{4}{5}$, $1\frac{5}{6}$, $2\frac{1}{2}$,
 $1\frac{1}{2}$, $1\frac{5}{6}$, $1\frac{2}{3}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$, $1\frac{1}{2}$,
~~photo #~~ $2\frac{1}{2}$, $1\frac{1}{2}$, $0\frac{5}{6}$

photo #

9/15/11

DR-5 - Pond 8 discharge

BM EL 5.32

WL EL 7.91

Velocities:

Main spillway

Leak 1:

Leak 2:

Velocity

Sample collected: 1^o (FLOW TOO SLOW TO OBTAIN FLOW METER READ.)

photo#

TO BE ESTIMATED
BASED ON PREVIOUS MONTH'S DATA -

pH 7.55

DO 1.02 ppm

EC 1053 μS

T 60.8°F

Sample collected at 2:30

photo #2

9/15/11

DR-4 - Pond 15 discharge

~~BM EL~~ ^{no}

Velocities:

upper pipe - 8.0 ft/s

lower pipe - 2.5 ft/s

Depth:

upper pipe - 0.32 ft

lower pipe - 0.20 ft

pH 7.38

DO 0.94 ppm

EC 1053 μS

T 64.9°F

Sample collected = 2:15

9/15/11

DR-2

BM EL 5.50

WL EL 11.73

Velocities: $0\frac{1}{2}, 0\frac{3}{2}, 0\frac{3}{2}, 0\frac{4}{2}, 0\frac{4}{2}, 0\frac{6}{2}, 0\frac{8}{2}$
 $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{2}{2}, 1\frac{3}{2}, 1\frac{3}{2}, 2\frac{1}{2}, 1\frac{4}{2}, 0\frac{6}{2}, 0\frac{8}{2}, 0\frac{2}{2}, 0\frac{4}{2}, 0\frac{2}{2}$

pH 8.10

EC 261 μS

DO 0.93 ppm T 58.8°F

Sample collected: 2:40 pm

photo# 3

9/15/11

DR-6 - South parshall flume -

pH 7.40 EC 1041 μS

DO 0.91 ppm T 61.5

manual depth measurement:

time

Time of measurement:

Sample collected: 3:05 pm

9/13/11

DR-3 - North marsh Alumne
pH 6.94 EC 1130 μ S
DO 0.95 ppm T 62.9°F

manual depth measurement

time of measurement:

Sample collected at: 1:45 pm

9/13/11

DR-8 - Duplicate of DR-3
pH 6.94 EC 1130 μ S
DO 0.95 ppm T 62.9°F

9/13/11

FB - Field Blank

pH 7.94

EC 0.0 mS

DO 1.17

T 59.9 °F

9/15/11

DR-F - Below Outfall in River

BL EL 7.08

WL EL 10.94

Velocities: 0¹, 0⁴, 0⁹, 1⁴, 2⁰,
2⁵, 2¹, 1⁶, 1¹, 1⁴, 1³, 1², 2⁰, 1⁹,
1⁴, 2⁰, 1¹, 0⁶, 0², 1⁶, 0⁸, 0⁴, 0⁵, 0³

pH 7.62 EC 39.1 mS
DO 1.17 ppm T 58.6 °F

Sample collected at 3:30pm

photo # 4

9/15/11

DR-2A

BM EL: 4.70

WL EL: 10.76

Velocities: 0°, 14°, 15°, 10°; 12°, 2°
10°, 1°, 28°, 18°, 21°, 1°, 3°, 23°, 4°,
~~photo #~~ 14°, 2°, 0°, 1°, 1°

photo #

9/15/11

DR-3A

BM EL 4.75

WL EL 9.73

Velocities: 0.3, 0.9, 0.6, 1.2, 1.3,
1.0, 1.2, 2.7, 1.6, 1.1, 2.3, 2.2,
1.3, 1.4, 2.0, 1.0, 2.0, 2.2
1.7, 0.7, 0.2

photo #

9/19/11

DR-4-SW - ^{near} Silver Swan

BM EL 5.57

WL EL 8.29

Velocities: 1.4, 0.9, 1.0, 1.2, 2.4
1.5, 1.0, 0.5, 1.8, 1.5, 2.4, 2.1,
2.1, 1.6, 0.9, 3.1, 1.0, 1.1, 0.5
0.6, 0.2

pH 7.76 EC 327 MS
DO 1.12 ppm T 59.3°F

Sample Collected: 3:55pm

photo # 5

9/19/11

DR-G

BM EL 4.68

WL EL 8.86

Velocities: 0.8, 1.5, 1.5, 1.7, 0.8,
1.8, 1.3, 1.1, 2.5, 2.5, 2.9, 1.9
2.0, 2.4, 1.7, 0.8, 1.3, 1.1, 1.7,
0.9, 0.5

pH 8.01 EC 327 MS
DO 1.05 T 59.0°F

Sample Collected: 4:10 pm

photo #6

Appendix I

North Flume Ultrasonic Meter Data with Flowrates

Date, Time	Reading	Parameter	Depth to water (ft)	Depth from sensor to Bottom of Flume (ft)	Depth of Flow (ft)	Depth of Flow (in)	Flowrate (cfs)	Flowrate (gpm)
9/1/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 0:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 0:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 1:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 1:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 1:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 10:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/1/2011 10:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/1/2011 10:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/1/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/1/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

Date	Time	Parameter	Value	Min	Max	Avg	Total
9/1/2011	11:15	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	11:30	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	11:45	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	12:00	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	12:15	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	12:30	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	12:45	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	13:00	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	13:15	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	13:30	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	13:45	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	14:00	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	14:15	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	14:30	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	15:00	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	15:15	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	15:30	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	15:45	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	16:00	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	16:15	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	16:30	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	16:45	8.68 Level	1.32	2.073	0.753	9.035	2.00
9/1/2011	17:00	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	17:15	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	17:30	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	17:45	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	18:00	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	18:15	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	18:30	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	18:45	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	19:00	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	19:15	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	19:30	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	19:45	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	20:00	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	20:15	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	20:30	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	20:45	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	21:00	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	21:15	8.69 Level	1.31	2.073	0.763	9.155	2.04
9/1/2011	21:30	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	21:45	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	22:00	8.64 Level	1.36	2.073	0.713	8.555	1.84
9/1/2011	22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/1/2011	22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/1/2011	22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88

9/1/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 23:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/1/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/1/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 0:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 0:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/2/2011 1:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/2/2011 1:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 1:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 2:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/2/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 5:45	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/2/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/2/2011 9:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/2/2011 10:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/2/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/2/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

Date/Time	Parameter	Value	Unit	Min Value	Max Value	Avg Value	Total Value
9/3/2011 10:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 10:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 11:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 11:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 11:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 11:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 12:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 12:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 12:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 12:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 13:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 13:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 13:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 13:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 14:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 14:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 14:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 15:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 15:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 15:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 15:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 16:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 16:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 16:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 16:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 17:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 17:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 17:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 17:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 18:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 18:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 18:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 18:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 19:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 19:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 19:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 19:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 20:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 20:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 20:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 20:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 21:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/3/2011 21:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/3/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/3/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

9/5/2011 9:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 9:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 9:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 10:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 10:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 10:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 11:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 11:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 11:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 11:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 12:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 12:15	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 12:30	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 12:45	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 13:00	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 13:15	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 13:30	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/5/2011 13:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 14:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 14:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 14:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 15:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 15:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 15:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 15:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 16:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 16:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 16:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 16:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/5/2011 17:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 17:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 17:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 17:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 18:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 18:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 18:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 18:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/5/2011 19:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 19:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 19:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 19:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 20:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 20:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/5/2011 20:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

9/7/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 8:45	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/7/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 10:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 10:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 10:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 10:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 11:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 11:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 11:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 11:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/7/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/7/2011 12:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 12:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 13:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 13:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/7/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/7/2011 13:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 14:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 14:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 14:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 14:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 15:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 16:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/7/2011 17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 17:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 18:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 18:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 18:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 18:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 19:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/7/2011 19:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 19:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7

Date/Time	Parameter	Value	Unit	Min Value	Max Value	Avg Value	Total Value
9/7/2011 20:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 20:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 20:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 21:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 21:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/7/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/7/2011 23:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 0:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 0:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 0:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 1:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/8/2011 1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 1:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 2:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 3:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 4:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 4:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 4:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 5:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 5:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 6:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 6:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 6:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 7:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 7:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 7:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

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9/8/2011 19:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 20:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 20:15	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 20:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/8/2011 21:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/8/2011 21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/8/2011 23:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 0:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 0:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 0:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 1:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 1:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 2:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 3:15	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 3:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 4:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
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9/9/2011 5:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 5:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/9/2011 5:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 6:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 6:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/9/2011 7:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

Date	Time	Parameter	Value	Min	Max	Avg	Total
9/9/2011	19:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	19:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	19:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	19:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	20:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	20:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	20:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	21:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	22:15	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/9/2011	22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/9/2011	23:30	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/9/2011	23:45	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	0:00	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	0:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	0:45	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	1:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	2:30	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	3:30	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	4:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	4:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	4:45	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	5:30	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	5:45	8.6 Level	1.4	2.073	0.673	8.075	1.69
9/10/2011	6:00	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	6:15	8.65 Level	1.35	2.073	0.723	8.675	1.88
9/10/2011	6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88

Date	Time	Parameter	Value	Min	Max	Avg	Total	
9/11/2011	18:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/11/2011	18:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/11/2011	18:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	18:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	19:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	19:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	19:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	19:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/11/2011	20:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	20:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	20:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/11/2011	21:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	21:15	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/11/2011	21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/11/2011	23:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	0:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/12/2011	0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	0:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/12/2011	0:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	1:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/12/2011	1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	2:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	3:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	4:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	4:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	4:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/12/2011	5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/12/2011	5:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

9/14/2011 4:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 5:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 5:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 6:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 6:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 7:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 7:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 7:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 7:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 8:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 8:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 8:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 8:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 9:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 9:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 9:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 9:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 10:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 10:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 10:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 11:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 11:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 11:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 11:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 12:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 12:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 12:30	0.01 Level	9.99	2.073	-7.917	-95.005	#NUM!	#NUM!
9/14/2011 12:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 13:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 13:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 13:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 13:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 14:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 14:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 14:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/14/2011 14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 15:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 15:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 15:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 15:45	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/14/2011 16:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/14/2011 16:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7

Date	Time	Parameter	Value	Min	Max	Avg	Total	
9/15/2011	16:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/15/2011	16:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	16:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	16:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	17:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/15/2011	17:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/15/2011	17:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	17:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	18:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	18:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	18:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	18:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	19:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	19:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	19:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/15/2011	19:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	20:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	20:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	20:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	20:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	21:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	22:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	22:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	23:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/15/2011	23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/15/2011	23:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/16/2011	0:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	0:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/16/2011	0:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/16/2011	1:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	1:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/16/2011	1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	2:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/16/2011	2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/16/2011	3:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/16/2011	3:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7

9/17/2011 15:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 16:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 16:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 17:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 17:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/17/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 18:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/17/2011 18:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 19:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 19:15	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/17/2011 19:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 19:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 20:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 20:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 20:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 20:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 21:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 21:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 21:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 21:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 22:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 22:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 22:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 23:00	7.11	Level	2.89	2.073	-0.817	-9.805	#NUM!	#NUM!
9/17/2011 23:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/17/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 0:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 0:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 1:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 1:15	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/18/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 1:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/18/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 3:30	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/18/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 4:45	7.06	Level	2.94	2.073	-0.867	-10.405	#NUM!	#NUM!
9/18/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 11:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/18/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 11:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 11:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 12:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 12:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 12:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 12:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 13:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 13:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/18/2011 13:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 14:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

Date/Time	Parameter	Value	Min	Max	Mean	Std Dev	Series
9/18/2011 14:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 15:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 15:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 15:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 15:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 16:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 16:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 16:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 16:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 17:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 17:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/18/2011 17:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 17:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 18:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/18/2011 18:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 18:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 18:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 19:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 19:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 19:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 19:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 20:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 20:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 20:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 21:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 22:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/18/2011 22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 22:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/18/2011 23:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 0:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 0:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 0:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 0:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 1:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

9/19/2011 2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 2:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 3:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 4:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 4:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 4:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 5:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 5:45	7.07 Level	2.93	2.073	-0.857	-10.285	#NUM!	#NUM!
9/19/2011 6:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 6:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 7:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 7:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 7:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 7:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 8:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 8:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 8:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 8:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 9:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 9:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 9:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 9:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 10:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 10:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 10:30	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 11:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 11:15	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/19/2011 11:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 11:45	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/19/2011 12:00	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/19/2011 12:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 12:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 12:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 13:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 13:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 13:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 13:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7

Date/Time	Parameter	Value	Min	Max	Mean	Std Dev	Series
9/19/2011 14:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 14:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 14:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 14:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 15:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 15:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 15:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 15:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 16:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 16:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 16:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 16:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 17:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 17:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 17:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 17:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 18:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 18:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 18:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 18:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 19:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 19:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 19:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 19:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 20:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 20:15	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/19/2011 20:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 20:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 21:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 22:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/19/2011 23:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 23:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/19/2011 23:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 0:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 0:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 0:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 0:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 1:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3

9/20/2011 1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 2:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 2:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 3:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 3:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 4:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 4:15	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/20/2011 4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 4:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 5:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 5:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 5:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 6:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 6:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 7:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 7:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 7:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 7:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 8:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/20/2011 8:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 8:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 8:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 9:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 9:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 9:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 9:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/20/2011 10:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 10:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 10:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 11:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 11:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 11:30	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/20/2011 11:45	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/20/2011 12:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 12:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 12:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 12:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/20/2011 13:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011 13:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7

Date	Time	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/20/2011	13:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	14:15	8.73	Level	1.27	2.073	0.803	9.635	2.20
9/20/2011	14:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	15:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	15:45	8.73	Level	1.27	2.073	0.803	9.635	2.20
9/20/2011	16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	16:15	8.64	Level	1.36	2.073	0.713	8.555	1.84
9/20/2011	16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	16:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	17:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	20:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	20:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	21:00	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/20/2011	21:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	21:30	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/20/2011	21:45	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	22:00	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	22:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	22:30	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/20/2011	22:45	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/20/2011	23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/20/2011	23:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	23:30	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/20/2011	23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/21/2011	0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/21/2011	0:15	8.69	Level	1.31	2.073	0.763	9.155	2.04
9/21/2011	0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/21/2011	0:45	8.65	Level	1.35	2.073	0.723	8.675	1.88
9/21/2011	1:00	8.69	Level	1.31	2.073	0.763	9.155	2.04

9/21/2011 1:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 1:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 5:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 7:00	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/21/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 8:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 8:45	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/21/2011 9:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 9:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 10:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 11:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/21/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 11:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 12:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7

9/21/2011 13:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 13:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 13:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 14:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 14:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/21/2011 14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 15:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 15:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 15:45	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/21/2011 16:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 16:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 16:45	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/21/2011 17:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/21/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 18:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/21/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 18:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 19:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 20:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 20:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 20:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 21:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 21:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 21:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 22:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 22:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 22:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/21/2011 22:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 23:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/21/2011 23:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/21/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 0:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/22/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

Time	Parameter	Value	Value	Value	Value	Value	Value
9/22/2011 0:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 1:00	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/22/2011 1:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 1:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 1:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 2:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 2:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 2:30	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/22/2011 2:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 3:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 3:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 3:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 3:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 4:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 4:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 4:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 4:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 5:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 5:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 5:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 5:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 6:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 6:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 6:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 6:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 7:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 7:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 7:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 7:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 8:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 8:15	8.6 Level	1.4	2.073	0.673	8.075	1.69	756.7
9/22/2011 8:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 8:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 9:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 9:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 9:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 9:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 10:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 10:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 10:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 10:45	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 11:00	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 11:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 11:30	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 11:45	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 12:00	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 12:15	8.68 Level	1.32	2.073	0.753	9.035	2.00	896.7

9/22/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 12:45	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/22/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 13:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/22/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 14:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 14:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/22/2011 14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 15:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 16:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/22/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/22/2011 17:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/22/2011 17:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 20:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 20:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 20:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 21:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/22/2011 21:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/22/2011 21:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/22/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 22:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 22:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 22:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/22/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 23:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/22/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/22/2011 23:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/23/2011 0:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 0:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 0:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 1:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 1:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 1:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 3:15	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/23/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 3:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 5:15	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/23/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 9:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 10:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 11:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 11:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 11:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 11:45	8.63	Level	1.37	2.073	0.703	8.435	1.80	808.3

9/23/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 12:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 13:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 13:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 14:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 14:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 14:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 14:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 15:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 15:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/23/2011 15:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/23/2011 15:45	8.72	Level	1.28	2.073	0.793	9.515	2.16	969.6
9/23/2011 16:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 16:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/23/2011 16:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 17:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 17:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/23/2011 17:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 19:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/23/2011 19:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 20:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 20:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 20:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 21:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 21:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 21:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 22:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 22:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 22:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 22:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/23/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/23/2011 23:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/23/2011 23:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7

9/23/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 0:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 0:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 0:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 1:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 1:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 1:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 1:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 2:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 2:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 2:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 3:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 5:30	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/24/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 6:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 7:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 7:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 8:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 8:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 8:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 8:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 9:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 9:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 9:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 10:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 10:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/24/2011 11:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 11:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 12:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 12:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 12:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 12:45	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 13:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 13:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 14:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 14:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 15:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 15:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 15:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 15:45	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/24/2011 16:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 16:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 17:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 17:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/24/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
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9/24/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
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9/24/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 20:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 20:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 20:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 21:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 21:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 21:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 22:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/24/2011 22:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 22:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 22:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/24/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/24/2011 23:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/24/2011 23:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 0:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 0:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 0:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 1:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 1:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 1:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 2:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 2:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 3:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 3:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 4:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 6:15	7.06	Level	2.94	2.073	-0.867	-10.405	#NUM!	#NUM!
9/25/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 6:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 9:30	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/25/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 10:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/25/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 11:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 12:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/25/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 12:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 13:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/25/2011 13:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/25/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 14:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 14:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 14:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/25/2011 14:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 15:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/25/2011 15:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 15:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 15:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 16:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 16:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 17:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 17:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/25/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 20:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 20:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 20:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/25/2011 20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 21:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 21:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 21:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 22:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 22:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/25/2011 22:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 23:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 23:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/25/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/25/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 0:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 0:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 1:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 1:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 1:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 2:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 2:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 4:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 4:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 4:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 6:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 7:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 7:45	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/26/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/26/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 10:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 11:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 11:30	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/26/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 12:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 13:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 14:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 14:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 14:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 14:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 15:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/26/2011 15:15	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/26/2011 15:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 16:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 16:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 17:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 19:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 20:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/26/2011 20:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 21:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 21:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 21:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/26/2011 21:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/26/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/27/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 10:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 10:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 11:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 11:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 12:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 12:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 13:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/27/2011 13:15	8.63	Level	1.37	2.073	0.703	8.435	1.80	808.3
9/27/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 14:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 14:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 14:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 14:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 15:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 16:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 16:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 17:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/27/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/27/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 18:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 19:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 19:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 19:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 20:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 20:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 21:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 21:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/27/2011 21:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/27/2011 21:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 22:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/27/2011 22:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 22:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 23:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/27/2011 23:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 0:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 0:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 0:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 1:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 1:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 1:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 1:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 2:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 2:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 3:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 3:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 3:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 4:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 4:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 4:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 4:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 5:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 5:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 6:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 8:30	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/28/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/28/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 9:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 10:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/28/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 11:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 11:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 11:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 12:00	7.19	Level	2.81	2.073	-0.737	-8.845	#NUM!	#NUM!
9/28/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 12:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 13:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 13:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 13:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 14:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 14:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 14:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 14:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 15:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 15:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 15:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 15:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 16:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 16:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 16:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 16:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 17:00	8.73	Level	1.27	2.073	0.803	9.635	2.20	988.2
9/28/2011 17:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 17:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 17:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/28/2011 18:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 18:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 19:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 19:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 19:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 19:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 20:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 20:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 20:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/28/2011 20:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/28/2011 21:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/29/2011 9:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 9:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 9:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 10:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 11:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 11:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 12:00	8.72	Level	1.28	2.073	0.793	9.515	2.16	969.6
9/29/2011 12:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 12:30	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 12:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 13:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 13:15	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/29/2011 13:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 14:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 14:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 15:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 15:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 15:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 15:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 16:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 16:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 16:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 16:45	7.15	Level	2.85	2.073	-0.777	-9.325	#NUM!	#NUM!
9/29/2011 17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 17:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 17:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 17:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 18:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 18:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 18:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 19:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 19:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 19:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 20:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 20:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 20:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7

9/29/2011 20:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 21:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 21:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 21:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 21:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 22:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 22:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 22:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/29/2011 22:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 23:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 23:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/29/2011 23:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/29/2011 23:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 0:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 0:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 0:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 0:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 1:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 1:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 1:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 1:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 2:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 2:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 2:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 2:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 3:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 3:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 3:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 3:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 4:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 4:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 4:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 4:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 5:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 5:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 5:30	8.6	Level	1.4	2.073	0.673	8.075	1.69	756.7
9/30/2011 5:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 6:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 6:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 6:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 6:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 7:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 7:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 7:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 7:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 8:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 8:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/30/2011 8:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 8:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 9:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 9:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 9:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 9:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 10:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 10:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 10:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 10:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 11:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 11:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 11:30	7.15	Level	2.85	2.073	-0.777	-9.325	#NUM!	#NUM!
9/30/2011 11:45	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/30/2011 12:00	8.68	Level	1.32	2.073	0.753	9.035	2.00	896.7
9/30/2011 12:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 12:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 12:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 13:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 13:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 13:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 13:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 14:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 14:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 14:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 14:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 15:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 15:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 15:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 15:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 16:00	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 16:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 16:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 16:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 17:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 17:15	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 17:30	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 17:45	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 18:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 18:15	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 18:30	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 18:45	8.64	Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 19:00	8.69	Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 19:15	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 19:30	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 19:45	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 20:00	8.65	Level	1.35	2.073	0.723	8.675	1.88	843.3

9/30/2011 20:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 20:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 20:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 21:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 21:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 21:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 21:45	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 22:00	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 22:15	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 22:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 22:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 23:00	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7
9/30/2011 23:15	8.69 Level	1.31	2.073	0.763	9.155	2.04	914.7
9/30/2011 23:30	8.65 Level	1.35	2.073	0.723	8.675	1.88	843.3
9/30/2011 23:45	8.64 Level	1.36	2.073	0.713	8.555	1.84	825.7

Appendix H

South Flume Orpheus Mini Data with Flowrates

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
9/1/2011	12:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/1/2011	1:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/1/2011	2:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/1/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/1/2011	4:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/1/2011	5:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/1/2011	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/1/2011	7:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/1/2011	8:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/1/2011	9:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/1/2011	10:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/1/2011	11:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/1/2011	12:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/1/2011	1:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/1/2011	2:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/1/2011	3:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/1/2011	4:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/1/2011	5:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	6:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	7:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	8:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	9:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	10:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/1/2011	11:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/2/2011	12:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/2/2011	1:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/2/2011	2:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/2/2011	3:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/2/2011	4:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/2/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/2/2011	6:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/2/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/2/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/2/2011	9:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/2/2011	10:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/2/2011	11:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/2/2011	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/2/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/2/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/2/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5

9/2/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/2/2011	11:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/3/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/3/2011	2:00:00 AM	1.98	2.5	0.52	1.14	512.6
9/3/2011	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/3/2011	4:00:00 AM	2.18	2.5	0.32	0.55	246.2
9/3/2011	5:00:00 AM	2.06	2.5	0.44	0.89	398.3
9/3/2011	6:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/3/2011	7:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/3/2011	8:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/3/2011	9:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/3/2011	10:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/3/2011	11:00:00 AM	1.71	2.5	0.79	2.15	964.2
9/3/2011	12:00:00 PM	1.5	2.5	1.00	3.07	1376.7
9/3/2011	1:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/3/2011	2:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/3/2011	3:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/3/2011	4:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/3/2011	5:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/3/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/3/2011	11:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/4/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/4/2011	1:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/4/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	4:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	5:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/4/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	7:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	8:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/4/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/4/2011	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/4/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/4/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	6:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/4/2011	7:00:00 PM	1.85	2.5	0.65	1.60	718.1

9/4/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/4/2011	11:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/5/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	4:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/5/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	7:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	8:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/5/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/5/2011	12:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/5/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/5/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/5/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/5/2011	4:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/5/2011	5:00:00 PM	1.78	2.5	0.72	1.87	838.1
9/5/2011	6:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/5/2011	7:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/5/2011	8:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/5/2011	9:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/5/2011	10:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/5/2011	11:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/6/2011	12:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/6/2011	1:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/6/2011	2:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/6/2011	3:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/6/2011	4:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/6/2011	5:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/6/2011	6:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/6/2011	7:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/6/2011	8:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/6/2011	9:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/6/2011	10:00:00 AM	1.71	2.5	0.79	2.15	964.2
9/6/2011	11:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/6/2011	12:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/6/2011	1:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/6/2011	2:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/6/2011	3:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/6/2011	4:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/6/2011	5:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/6/2011	6:00:00 PM	1.84	2.5	0.66	1.64	734.9

9/6/2011	7:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/6/2011	8:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/6/2011	9:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/6/2011	10:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/6/2011	11:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/7/2011	12:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	1:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/7/2011	2:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/7/2011	3:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	4:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/7/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/7/2011	6:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	11:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/7/2011	12:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/7/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/7/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/7/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/7/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/7/2011	5:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/7/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/7/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/7/2011	8:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/7/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/7/2011	10:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/7/2011	11:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/8/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/8/2011	1:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/8/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/8/2011	3:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/8/2011	4:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/8/2011	5:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/8/2011	6:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/8/2011	7:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/8/2011	8:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/8/2011	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/8/2011	10:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/8/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/8/2011	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/8/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/8/2011	3:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/8/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5

9/8/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	7:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/8/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/8/2011	11:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/9/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	3:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/9/2011	4:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	7:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/9/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/9/2011	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/9/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/9/2011	11:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/9/2011	12:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/9/2011	11:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/10/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	2:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/10/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	4:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/10/2011	8:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/10/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/10/2011	11:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/10/2011	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/10/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5

9/10/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/10/2011	11:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	4:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	5:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/11/2011	6:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/11/2011	7:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/11/2011	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/11/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/11/2011	12:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/11/2011	1:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	4:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/11/2011	5:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/11/2011	6:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/11/2011	7:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/11/2011	8:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/11/2011	9:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/11/2011	11:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/12/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/12/2011	2:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/12/2011	3:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/12/2011	4:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/12/2011	5:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/12/2011	6:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/12/2011	7:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/12/2011	8:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/12/2011	9:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/12/2011	10:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/12/2011	11:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/12/2011	12:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/12/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5

9/12/2011	4:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2011	5:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/12/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/12/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/12/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/12/2011	9:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/12/2011	10:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/12/2011	11:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	12:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/13/2011	1:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/13/2011	2:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/13/2011	3:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/13/2011	4:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/13/2011	5:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/13/2011	6:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/13/2011	7:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/13/2011	8:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/13/2011	9:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/13/2011	10:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/13/2011	11:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/13/2011	12:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/13/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/13/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	4:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/13/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	7:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/13/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/13/2011	9:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/13/2011	10:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/13/2011	11:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/14/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/14/2011	1:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/14/2011	2:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/14/2011	3:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/14/2011	4:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/14/2011	5:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/14/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/14/2011	7:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/14/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/14/2011	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/14/2011	10:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/14/2011	11:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/14/2011	12:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/14/2011	1:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/14/2011	2:00:00 PM	1.79	2.5	0.71	1.83	820.6

9/14/2011	3:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/14/2011	4:00:00 PM	1.78	2.5	0.72	1.87	838.1
9/14/2011	5:00:00 PM	1.78	2.5	0.72	1.87	838.1
9/14/2011	6:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/14/2011	7:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/14/2011	8:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/14/2011	9:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/14/2011	10:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/14/2011	11:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/15/2011	12:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/15/2011	1:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/15/2011	2:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/15/2011	4:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/15/2011	6:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/15/2011	7:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/15/2011	8:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	9:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	10:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	11:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/15/2011	12:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/15/2011	1:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/15/2011	2:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/15/2011	3:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/15/2011	4:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/15/2011	5:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/15/2011	6:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/15/2011	7:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/15/2011	8:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/15/2011	9:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/15/2011	10:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/15/2011	11:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/16/2011	12:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/16/2011	1:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/16/2011	2:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/16/2011	3:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/16/2011	4:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/16/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/16/2011	6:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/16/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/16/2011	8:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/16/2011	9:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/16/2011	10:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/16/2011	11:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/16/2011	12:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/16/2011	1:00:00 PM	1.81	2.5	0.69	1.75	785.9

9/16/2011	2:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/16/2011	3:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/16/2011	4:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/16/2011	5:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/16/2011	6:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/16/2011	7:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/16/2011	8:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/16/2011	9:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/16/2011	10:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/16/2011	11:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/17/2011	12:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/17/2011	1:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/17/2011	2:00:00 AM	1.74	2.5	0.76	2.03	909.5
9/17/2011	3:00:00 AM	1.75	2.5	0.75	1.99	891.5
9/17/2011	4:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/17/2011	5:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/17/2011	6:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/17/2011	7:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/17/2011	8:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/17/2011	9:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/17/2011	10:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/17/2011	11:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/17/2011	12:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/17/2011	1:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/17/2011	2:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/17/2011	3:00:00 PM	1.75	2.5	0.75	1.99	891.5
9/17/2011	4:00:00 PM	1.74	2.5	0.76	2.03	909.5
9/17/2011	5:00:00 PM	1.76	2.5	0.74	1.95	873.6
9/17/2011	6:00:00 PM	1.78	2.5	0.72	1.87	838.1
9/17/2011	7:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/17/2011	8:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/17/2011	9:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/17/2011	10:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/17/2011	11:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/18/2011	12:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/18/2011	1:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	2:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	3:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	4:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	5:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	6:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/18/2011	7:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/18/2011	8:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/18/2011	9:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/18/2011	10:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/18/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/18/2011	12:00:00 PM	1.86	2.5	0.64	1.56	701.5

9/18/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/18/2011	2:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/18/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/18/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/18/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/18/2011	6:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/18/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/18/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/18/2011	9:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/18/2011	10:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/18/2011	11:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/19/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	1:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/19/2011	2:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	3:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	4:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/19/2011	6:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	7:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	8:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	9:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	10:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/19/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/19/2011	12:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	1:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/19/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	3:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/19/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/19/2011	9:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/19/2011	10:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/19/2011	11:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/20/2011	1:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/20/2011	2:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/20/2011	3:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/20/2011	4:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/20/2011	5:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/20/2011	6:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/20/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/20/2011	8:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/20/2011	9:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/20/2011	10:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/20/2011	11:00:00 AM	1.86	2.5	0.64	1.56	701.5

9/20/2011	12:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/20/2011	1:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	2:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	3:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/20/2011	4:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/20/2011	5:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	6:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	7:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	8:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/20/2011	9:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	10:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/20/2011	11:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	1:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/21/2011	2:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/21/2011	3:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/21/2011	4:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	5:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	6:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/21/2011	7:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	8:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	9:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	10:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	11:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/21/2011	12:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	1:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	2:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	3:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	4:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	5:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	6:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/21/2011	7:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/21/2011	8:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/21/2011	9:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/21/2011	10:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/21/2011	11:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/22/2011	12:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/22/2011	1:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/22/2011	2:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/22/2011	3:00:00 AM	1.82	2.5	0.68	1.71	768.8
9/22/2011	4:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/22/2011	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
9/22/2011	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
9/22/2011	7:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/22/2011	8:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/22/2011	9:00:00 AM	1.72	2.5	0.78	2.11	945.9
9/22/2011	10:00:00 AM	1.69	2.5	0.81	2.23	1001.4

9/22/2011	11:00:00 AM	1.65	2.5	0.85	2.40	1077.0
9/22/2011	12:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/22/2011	1:00:00 PM	1.65	2.5	0.85	2.40	1077.0
9/22/2011	2:00:00 PM	1.42	2.5	1.08	3.45	1546.4
9/22/2011	3:00:00 PM	1.59	2.5	0.91	2.66	1193.9
9/22/2011	4:00:00 PM	1.69	2.5	0.81	2.23	1001.4
9/22/2011	5:00:00 PM	1.73	2.5	0.77	2.07	927.6
9/22/2011	6:00:00 PM	1.75	2.5	0.75	1.99	891.5
9/22/2011	7:00:00 PM	1.76	2.5	0.74	1.95	873.6
9/22/2011	8:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/22/2011	9:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/22/2011	10:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/22/2011	11:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	12:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	1:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	2:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	3:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/23/2011	4:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	5:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	6:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	7:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	8:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	9:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	10:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	11:00:00 AM	1.77	2.5	0.73	1.91	855.8
9/23/2011	12:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	1:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	2:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	3:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	4:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	5:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	6:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	7:00:00 PM	1.76	2.5	0.74	1.95	873.6
9/23/2011	8:00:00 PM	1.77	2.5	0.73	1.91	855.8
9/23/2011	9:00:00 PM	1.78	2.5	0.72	1.87	838.1
9/23/2011	10:00:00 PM	1.79	2.5	0.71	1.83	820.6
9/23/2011	11:00:00 PM	1.8	2.5	0.70	1.79	803.2
9/24/2011	12:00:00 AM	2.07	2.5	0.43	0.86	384.7
9/24/2011	1:00:00 AM	2	2.5	0.50	1.08	483.2
9/24/2011	2:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/24/2011	3:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/24/2011	4:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/24/2011	5:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/24/2011	6:00:00 AM	1.85	2.5	0.65	1.60	718.1
9/24/2011	7:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/24/2011	8:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/24/2011	9:00:00 AM	1.79	2.5	0.71	1.83	820.6

9/24/2011	10:00:00 AM	1.41	2.5	1.09	3.49	1568.1
9/24/2011	11:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/24/2011	12:00:00 PM	1.76	2.5	0.74	1.95	873.6
9/24/2011	1:00:00 PM	1.82	2.5	0.68	1.71	768.8
9/24/2011	2:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/24/2011	3:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/24/2011	4:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/24/2011	5:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/24/2011	6:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/24/2011	7:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/24/2011	8:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/24/2011	9:00:00 PM	1.92	2.5	0.58	1.35	604.6
9/24/2011	10:00:00 PM	1.93	2.5	0.57	1.31	588.9
9/24/2011	11:00:00 PM	1.92	2.5	0.58	1.35	604.6
9/25/2011	12:00:00 AM	1.65	2.5	0.85	2.40	1077.0
9/25/2011	1:00:00 AM	1.47	2.5	1.03	3.21	1439.6
9/25/2011	2:00:00 AM	1.72	2.5	0.78	2.11	945.9
9/25/2011	3:00:00 AM	1.8	2.5	0.70	1.79	803.2
9/25/2011	4:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/25/2011	5:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/25/2011	6:00:00 AM	2.09	2.5	0.41	0.80	358.0
9/25/2011	7:00:00 AM	2.08	2.5	0.42	0.83	371.3
9/25/2011	8:00:00 AM	2.05	2.5	0.45	0.92	412.1
9/25/2011	9:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/25/2011	10:00:00 AM	1.67	2.5	0.83	2.31	1038.9
9/25/2011	11:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/25/2011	12:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/25/2011	1:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/25/2011	2:00:00 PM	1.9	2.5	0.60	1.42	636.4
9/25/2011	3:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	4:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	5:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	6:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	7:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	8:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	9:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	10:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/25/2011	11:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	12:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/26/2011	1:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/26/2011	2:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/26/2011	3:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/26/2011	4:00:00 AM	1.94	2.5	0.56	1.28	573.4
9/26/2011	5:00:00 AM	1.97	2.5	0.53	1.18	527.6
9/26/2011	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
9/26/2011	7:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/26/2011	8:00:00 AM	1.93	2.5	0.57	1.31	588.9

9/26/2011	9:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/26/2011	10:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/26/2011	11:00:00 AM	1.9	2.5	0.60	1.42	636.4
9/26/2011	12:00:00 PM	1.9	2.5	0.60	1.42	636.4
9/26/2011	1:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	2:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	3:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	4:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	5:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	6:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	7:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	8:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	9:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	10:00:00 PM	1.91	2.5	0.59	1.38	620.4
9/26/2011	11:00:00 PM	1.97	2.5	0.53	1.18	527.6
9/27/2011	12:00:00 AM	1.93	2.5	0.57	1.31	588.9
9/27/2011	1:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/27/2011	2:00:00 AM	1.96	2.5	0.54	1.21	542.7
9/27/2011	3:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/27/2011	4:00:00 AM	1.92	2.5	0.58	1.35	604.6
9/27/2011	5:00:00 AM	1.91	2.5	0.59	1.38	620.4
9/27/2011	6:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/27/2011	7:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/27/2011	8:00:00 AM	1.81	2.5	0.69	1.75	785.9
9/27/2011	9:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/27/2011	10:00:00 AM	1.73	2.5	0.77	2.07	927.6
9/27/2011	11:00:00 AM	1.71	2.5	0.79	2.15	964.2
9/27/2011	12:00:00 PM	1.71	2.5	0.79	2.15	964.2
9/27/2011	1:00:00 PM	1.7	2.5	0.80	2.19	982.7
9/27/2011	2:00:00 PM	1.69	2.5	0.81	2.23	1001.4
9/27/2011	3:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/27/2011	4:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/27/2011	5:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/27/2011	6:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/27/2011	7:00:00 PM	1.68	2.5	0.82	2.27	1020.1
9/27/2011	8:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/27/2011	9:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/27/2011	10:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/27/2011	11:00:00 PM	1.67	2.5	0.83	2.31	1038.9
9/28/2011	12:00:00 AM	1.65	2.5	0.85	2.40	1077.0
9/28/2011	1:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/28/2011	2:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/28/2011	3:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/28/2011	4:00:00 AM	1.66	2.5	0.84	2.36	1057.9
9/28/2011	5:00:00 AM	1.69	2.5	0.81	2.23	1001.4
9/28/2011	6:00:00 AM	1.74	2.5	0.76	2.03	909.5
9/28/2011	7:00:00 AM	1.7	2.5	0.80	2.19	982.7

9/28/2011	8:00:00 AM	1.68	2.5	0.82	2.27	1020.1
9/28/2011	9:00:00 AM	1.67	2.5	0.83	2.31	1038.9
9/28/2011	10:00:00 AM	1.67	2.5	0.83	2.31	1038.9
9/28/2011	11:00:00 AM	1.37	2.5	1.13	3.69	1655.8
9/28/2011	12:00:00 PM	1.61	2.5	0.89	2.57	1154.5
9/28/2011	1:00:00 PM	1.75	2.5	0.75	1.99	891.5
9/28/2011	2:00:00 PM	1.81	2.5	0.69	1.75	785.9
9/28/2011	3:00:00 PM	1.84	2.5	0.66	1.64	734.9
9/28/2011	4:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/28/2011	5:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/28/2011	6:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/28/2011	7:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/28/2011	8:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/28/2011	9:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/28/2011	10:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/28/2011	11:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/29/2011	12:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/29/2011	1:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/29/2011	2:00:00 AM	1.87	2.5	0.63	1.53	685.0
9/29/2011	3:00:00 AM	1.89	2.5	0.61	1.45	652.4
9/29/2011	4:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/29/2011	5:00:00 AM	1.88	2.5	0.62	1.49	668.7
9/29/2011	6:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/29/2011	7:00:00 AM	1.76	2.5	0.74	1.95	873.6
9/29/2011	8:00:00 AM	1.72	2.5	0.78	2.11	945.9
9/29/2011	9:00:00 AM	1.7	2.5	0.80	2.19	982.7
9/29/2011	10:00:00 AM	1.68	2.5	0.82	2.27	1020.1
9/29/2011	11:00:00 AM	1.68	2.5	0.82	2.27	1020.1
9/29/2011	12:00:00 PM	1.67	2.5	0.83	2.31	1038.9
9/29/2011	1:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/29/2011	2:00:00 PM	1.62	2.5	0.88	2.53	1134.9
9/29/2011	3:00:00 PM	1.6	2.5	0.90	2.62	1174.1
9/29/2011	4:00:00 PM	1.6	2.5	0.90	2.62	1174.1
9/29/2011	5:00:00 PM	1.6	2.5	0.90	2.62	1174.1
9/29/2011	6:00:00 PM	1.61	2.5	0.89	2.57	1154.5
9/29/2011	7:00:00 PM	1.61	2.5	0.89	2.57	1154.5
9/29/2011	8:00:00 PM	1.62	2.5	0.88	2.53	1134.9
9/29/2011	9:00:00 PM	1.63	2.5	0.87	2.49	1115.5
9/29/2011	10:00:00 PM	1.66	2.5	0.84	2.36	1057.9
9/29/2011	11:00:00 PM	1.67	2.5	0.83	2.31	1038.9
9/30/2011	12:00:00 AM	1.58	2.5	0.92	2.70	1213.8
9/30/2011	1:00:00 AM	1.73	2.5	0.77	2.07	927.6
9/30/2011	2:00:00 AM	1.79	2.5	0.71	1.83	820.6
9/30/2011	3:00:00 AM	1.83	2.5	0.67	1.68	751.8
9/30/2011	4:00:00 AM	1.84	2.5	0.66	1.64	734.9
9/30/2011	5:00:00 AM	1.86	2.5	0.64	1.56	701.5
9/30/2011	6:00:00 AM	1.69	2.5	0.81	2.23	1001.4

9/30/2011	7:00:00 AM	1.61	2.5	0.89	2.57	1154.5
9/30/2011	8:00:00 AM	1.56	2.5	0.94	2.79	1253.8
9/30/2011	9:00:00 AM	1.54	2.5	0.96	2.88	1294.4
9/30/2011	10:00:00 AM	1.69	2.5	0.81	2.23	1001.4
9/30/2011	11:00:00 AM	1.78	2.5	0.72	1.87	838.1
9/30/2011	12:00:00 PM	1.83	2.5	0.67	1.68	751.8
9/30/2011	1:00:00 PM	1.85	2.5	0.65	1.60	718.1
9/30/2011	2:00:00 PM	1.86	2.5	0.64	1.56	701.5
9/30/2011	3:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/30/2011	4:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/30/2011	5:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/30/2011	6:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/30/2011	7:00:00 PM	1.87	2.5	0.63	1.53	685.0
9/30/2011	8:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/30/2011	9:00:00 PM	1.89	2.5	0.61	1.45	652.4
9/30/2011	10:00:00 PM	1.88	2.5	0.62	1.49	668.7
9/30/2011	11:00:00 PM	1.89	2.5	0.61	1.45	652.4